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National Highway Traffic Safety Administration

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DYNAMIC SCIENCE, INC. In-Depth Accident Investigation

Contract DTNH22-94-D-27058 Case DSI-96-AB-12

May, 1997

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This case was initiated in response to reports of an airbag-related child fatality. Vehicle 1, a 1996 Oldsmobile Cutlass Supreme S four-door driven by a 39-year-old female, was traveling southbound on a two-lane divided roadway approaching a three-leg intersection. The driver of Vehicle 1 was restrained. The right front occupant was a four-year-old female. She was wearing on the lap portion of the lap and shoulder belt system. The right rear occupant was a seven-year-old female who was restrained. Vehicle 2, a 1987 Ford Tempo four-door driven by a 47-year-old male, was initially stopped facing north in the left hand turn lar at the intersection, preparing to turn to the west. As Vehicle 1 approached the intersection, the driver of Vehicle 2 began a left hand turn. The driver of Vehicle 1 stated that she did not have time for any evasive maneuvers and the police did not report any pre-impact skidding, but it should be noted that Vehicle 1 is an ABS-equipped vehicle and it is unlikely that any skidmarks would visible. The front of Vehicle 1 struck the right side of Vehicle 2. Vehicle 1 sustained a delta V of 22 km/h (14 MPH). Both airbags in Vehicle 1 deployed at this point. Vehicle 1 was redirected slightly to the right, went into a clockwise rotation and cam to rest south of the intersection. Vehicle 2 was pushed into a clockwise rotation, coming to rest in the intersection facing south. witness to the collision pulled his car off to the side of the road. The driver of Vehicle 1 exited her vehicle, carrying the right fro occupant who was unconscious at this time. She requested assistance. The right front occupant was placed in the rear of the witness vehicle and transported to a local emergency room. This took approximately five minutes. The driver of Vehicle 2 was trapped inside his vehicle. After extrication he was transported to the hospital. The driver of Vehicle 1 complained of chest injuries. The right front occupant was set in motion, and rotated about the lap belt. Her left arm was struck by the module			ne divided roadway approaching a three-leg was a four-year-old female. She was wearing only a seven-year-old female who was restrained. Tailly stopped facing north in the left hand turn lane intersection, the driver of Vehicle 2 began a left sive maneuvers and the police did not report any ehicle and it is unlikely that any skidmarks would be ustained a delta V of 22 km/h (14 MPH). Both the right, went into a clockwise rotation and came, coming to rest in the intersection facing south. A Wehicle 1 exited her vehicle, carrying the right front at front occupant was placed in the rear of the stelly five minutes. The driver of Vehicle 2 was the driver of Vehicle 1 complained of chest injuries. The sustained head and chest injuries and was at appears that the driver braked prior to impact. The mass struck by the module cover and her face and	
17. Key Words		18. Distribution Statement		
Air bag, deployment, c	erash, child			
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TECHNICAL SUMMARY

CONTRACTOR: CONTRACT NUMBER: Dynamic Science, Inc. DTNH22-94-D-27058

CASE NUMBER:

Case DS96-012

This case was initiated in response to reports of an airbag-related child fatality.

This collision occurred in December, 1996 at 1717 hours. The weather was clear and the roadway dry.

Vehicle 1, a 1996 Oldsmobile Cutlass Supreme SL four-door driven by a 39-year-old female, was traveling southbound on a two-lane divided roadway approaching a three-leg intersection. The driver of Vehicle 1 was restrained. The right front occupant was a four-year-old female. She was wearing only the lap portion of the lap and shoulder belt system. The right rear occupant was a seven-year-old female who was restrained. Vehicle 2, a 1987 Ford Tempo four-door driven by a 47-year-old male, was initially stopped facing north in the left hand turn lane at the intersection, preparing to turn to the west.

As Vehicle 1 approached the intersection, the driver of Vehicle 2 began a left hand turn. The driver of Vehicle 1 stated that she did not have time for any evasive maneuvers and the police did not report any pre-impact skidding, but it should be noted that Vehicle 1 is an ABS-equipped vehicle and it is unlikely that any skidmarks would be visible. The front of Vehicle 1 struck the right side of Vehicle 2. Vehicle 1 sustained a delta V of 22 km/h (14 MPH). Both airbags in Vehicle 1 deployed at this point. Vehicle 1 was redirected slightly to the right, went into a clockwise rotation and came to rest south



Figure 1. Exterior of Vehicle 1.

of the intersection. Vehicle 2 was pushed into a clockwise rotation, coming to rest in the intersection facing south.

A witness to the collision pulled his car off to the side of the road. The driver of Vehicle 1 exited her vehicle, carrying the right front occupant who was unconscious at this time. She requested assistance. The right front occupant was placed in the rear of the witness' vehicle and transported to a local emergency room. This took approximately five minutes. The driver of Vehicle 2 was trapped inside his vehicle. After extrication he was transported to the hospital.

The driver of Vehicle 1 complained of chest injuries. The right rear passenger complained of right leg injuries. The right front passenger sustained head and chest injuries and was pronounced dead at 1950 hours, a little more than 2-1/2 hours after the collision.

It appears that the driver of Vehicle 1 braked prior to impact. The right front occupant was set in motion, and rotated about the lap belt. Her left arm was struck by the module cover and her face and chest struck by the deploying airbag.

Vehicle 1 sustained moderate damage (12FDEW2) and was towed from the scene and placed into secure police storage. Vehicle 2 was towed from the scene due to damage.

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points be coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the precrash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

DYNAMIC SCIENCE, INC. ACCIDENT INVESTIGATION CASE NUMBER: DSI-96-AB-12

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ACCIDENT DATA:	
Location:	
Area/Type:	Urban
Date/Time:	1996 / 1717
Accident Type:	Vehicle v. Vehicle / Front to Side
Injury Severity:	
Vehicle 1:	Driver, no codeable injuries RF occupant, AIS=3, fatally injured RR occupant, no codeable injuries
Vehicle 2:	Injured, unknown severity
AMBIENCE:	
Viewing Conditions:	Good
Cloud Cover:	None
Precipitation:	None
Temperature:	14 to -1° C (57 to 31° F)
Road Surface:	Dry

ROADWAY:

Traffic Controls:

VEHICLE 1 VEHICLE 2

Type: Business Business

Width: 19.7 M (64.7 ft.) 19.7 M (64.7 ft.)

Traffic Density: Light to moderate Light to moderate

Median: Curbed None

Edge: Curbed median on left, Paved driveway / parking paved bituminous lot area on right, paved

shoulder on right asphalt shoulder on right

Surface: Asphalt Asphalt

Reported Defects: None None

Co-efficient of Friction (est.): 0.70 0.70

Vertical Alignment: Level Level

Horizontal Alignment: Straight @ intersection, Straight

slight left-hand curve

slight left-flahd curve

VEHICLE 1 VEHICLE 2
Signals: None None

Signs: None applicable None applicable

Speed Limit: 72 km/h (45 MPH) 72 km/h (45 MPH)

Markings: Dashed white lines to Triple yellow lines to left, the right, solid yellow double white lines to right

the right, solid yellow double white line line to the left adjacent

to the median

VEHICLES:

VEHICLE 1

VEHICLE 2

Description:

1996 Oldsmobile

Cutlass Supreme SL

four-door

1987 Ford Tempo four-

door

Odometer:

51175 km

Unknown

(31800 miles)

Engine:

3.1 L V6 MFI

2.3 L L4

Vehicle Modifications:

None

None noted

Tire Condition:

Good

Unknown

Manual Restraints: 3-point loop lap and

shoulder belt with shoulder retractor and end release adjustment for LF/RF; 3-point loop lap and shoulder belt with shoulder retractor, end release adjustment, and child cinch retractor for LR/RR; lap belt for MR.

Unknown

Supplemental Restraint

System (driver's and passenger's side airbags)

None

Reported Defects:

Automatic Restraints:

None

None

Cargo:

None

Unknown

Windshield Damage:

Damaged by occupant contact and the airbag

Unknown

module cover

Fleet:

None

None

Tow Status:

Towed, due to damage

Towed, due to damage

VEHICLE DAMAGE:

	VEHICLE 1	VEHICLE 2
Object Struck:	02	01
Event Number:	01	01
CDC:	12FDEW2	Unknown
Maximum Crush:	29.5 cm @C4-C5	Unknown

Bumper knocked off during collision. The bumper system has a soft fascia and uses a honeycomb absorber with a rigid reinforcing bar.

VEHICLE VELOCITY ESTIMATES:

	VEHICLE 1	VEHICLE 2
Impact Speed: (estimated)	63 km/h (39.4 MPH)	43 km/h (26.9 MPH)
Total Delta V:	22 km/h (14 MPH)	32 km/h (20 MPH)
Longitudinal Delta V:	-22 km/h (-14 MPH)	-18 km/h (-11 MPH)
Lateral Delta V:	2 km/h (1 MPH)	-26 km/h (-16 MPH)
Energy Dissipation:	36648 joules (27174 ft-lb)	50343 joules (37126 ft-lb)

Delta V calculations based upon missing vehicle algorithm using default stiffness values.

Impact speed estimated using 360 linear momentum method (see below).

```
Vehicle 1 Weight = 3659 pounds

Vehicle 1 Approach Angle = 0 degrees

Vehicle 1 Departure Angle (theta) = 11 degrees

Vehicle 1 Departure Speed = 32 MPH

Vehicle 2 Weight = 2544 pounds

Vehicle 2 Approach Angle (psi) = 100 degrees

Vehicle 2 Departure Angle (phi) = 69 degrees

Vehicle 2 Departure Speed = 19 MPH
```

```
V2 = (W1 * V3 * Sin(theta)) / (W2 * Sin(psi) + (V4 * Sin(phi)) / Sin(psi) 
V2 = 3659 * 32 * Sin(11) / 2544 * Sin(100) + 19 * Sin(69) / Sin(100) 
V2 = 3659 * 32 * .19080 / 2544 * .98480 + 19 * .93358 / .98480
```

```
V2 = 22341. / 2505.3 + 17.738 / .98480
```

$$V2 = 8.9174 + 18.011$$

$$V2 = 26.929 \text{ MPH}$$

$$V1 = S3 * Cos(theta) + (W2 * V4 * Cos(phi)) / W1 - (W2 * V2 * Cos(psi)) / W1$$

$$V1 = [32 * Cos(11)] + [2544 * 19 * Cos(69) / 3659] - [2544 * 26.929 * Cos(100) / 3659)]$$

$$V1 = [32 * .98162] + [2544 * 19 * .35836 / 3659] - [2544 * 26.929* - .1736 / 3659]$$

$$V1 = 31.412 + 4.7341 - -4.676$$

V1 = 39.397 MPH

COLLISION SEQUENCE:

Pre-Crash:

Vehicle 1, a 1996 Oldsmobile Cutlass Supreme SL four-door driven by a 39-year-old female, was traveling southbound on a two-lane divided roadway approaching a three-leg intersection. The driver of Vehicle 1 was restrained. The right front occupant was a four-year-old female. She was restrained using only the lap belt. The right rear occupant was a seven-year-old female who was restrained. Vehicle 2, a 1987 Ford Tempo four-door driven by a 47-year-old male, was initially stopped facing north in the left hand turn lane at the intersection, preparing to turn to the west

Crash:

As Vehicle 1 approached the intersection, the driver of Vehicle 2 began a left hand turn. The driver of Vehicle 1 stated that she did not have time for any evasive maneuvers and the police did not report any preimpact skidding, but it should be noted that Vehicle 1 is an ABS-equipped vehicle and it is unlikely that any skidmarks would be visible. Given the occupant kinematics, it is believed that there was some preimpact braking. The front of Vehicle 1 struck the right side Vehicle 2. Vehicle 1 sustained a delta V of 22 km/h (14 MPH). Both airbags in Vehicle 1 deployed at this point.

Post Crash:

Vehicle 1 was redirected slightly to the right, went into a clockwise rotation, and came to rest facing generally toward the north approximately 32 M (105 ft) south of the impact area. Vehicle 2 was pushed into a clockwise rotation, coming to rest in the intersection facing toward the south. A witness to the collision pulled his car off to the side of the road. The driver of Vehicle 1 exited her vehicle, carrying the right front occupant who was unconscious at this time. She requested assistance. The right front occupant was placed in the rear of the witness vehicle and transported to a local emergency room. This took approximately five minutes. The driver of Vehicle 2 was trapped inside his vehicle. After extrication he was transported to the hospital.

The driver of Vehicle 1 complained of chest injuries. The right rear passenger complained of right leg injuries. The right front passenger sustained head and chest injuries and was pronounced dead at 1950 hours, a little more than 2-1/2 hours after the collision.

Occupant Kinematics:

The right front occupant of Vehicle 1 was wearing only the lap portion of the lap and shoulder belt system. There is scoring on the D-ring indicating loading and there is injury evidence which indicates no shoulder belt usage.

It appears that the right front occupant was turned somewhat to the right. The lap belt was fastened. Prior to impact, the driver of Vehicle 1 braked. The right front occupant pivoted about the lap belt. Her head, torso, and hands went forward. Prior to impact, this occupant's left arm was above and somewhat to the left of the center of the module cover. Her waist would have been loading and in contact with the lap belt. At impact, the airbag deployed. The module cover was forced upward toward the windshield. This motion caused the module to strike and contuse the underside of this occupant's left arm. It also seems to have diverted the normal module cover motion to the right (see Figure 4). Her arm and hand were forced upward and the top side of her left hand struck and fractured the windshield. The deploying airbag struck her primarily on the left side of her face causing numerous abrasions, a fractured mandible, and brain contusion. The airbag also contacted the left posterior portion of her torso causing fractured ribs. It appears that the splenar lacerations and a liver laceration were caused due to loading from the lap belt. The right arm was flung backward and struck some unknown objects.

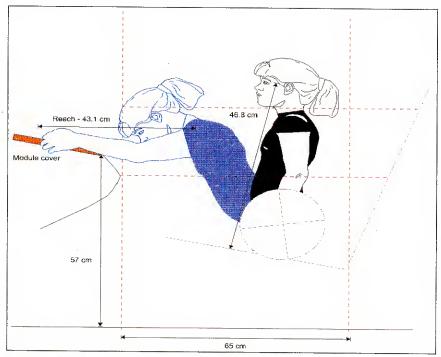


Figure 2. Right front occupant kinematics

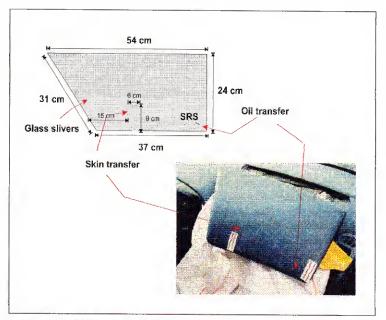


Figure 3. Module cover, right front airbag.



Figure 4. Motion of module cover due to left side loading.

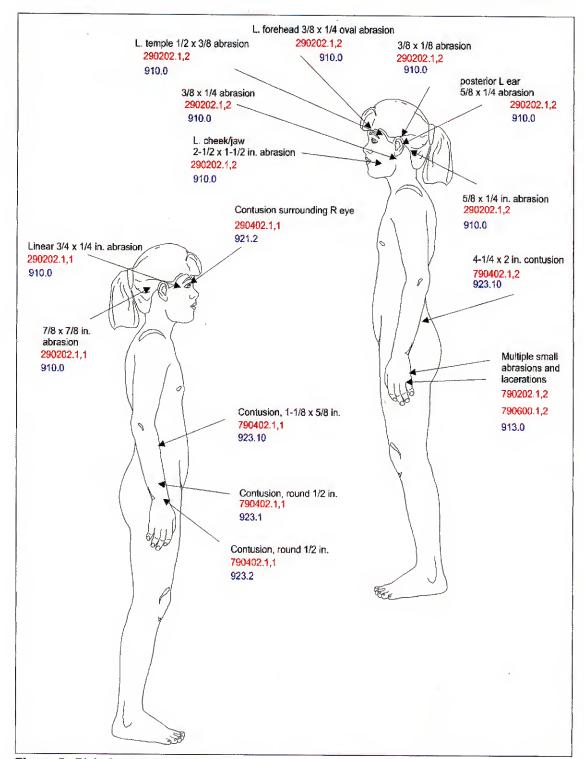


Figure 5. Right front occupant injuries

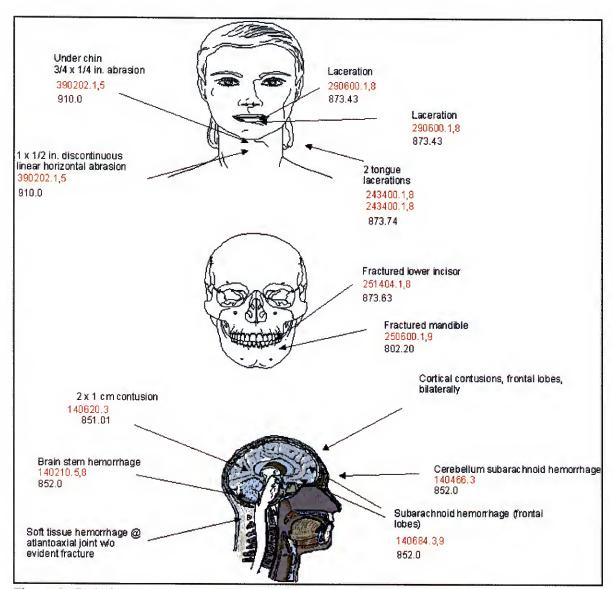


Figure 6. Right front occupant injuries

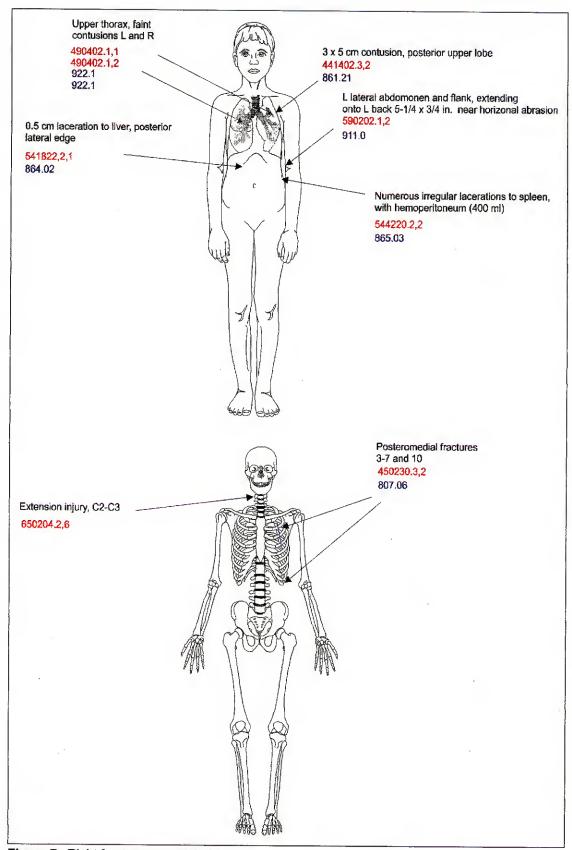


Figure 7. Right front occupant injuries

Airbag System:

Vehicle 1 was equipped with a driver's and passenger's side supplement restraint system. The left front airbag module uses an "I" tear pattern. The airbag is 63 cm in diameter and there are nine folds. The right front airbag is top-mounted and the module uses a webbing attached design. Figures 8

and 9 show the design of the right front air bag module cover. The airbag is 56 cm by 57 cm tall. The maximum excursion puts the leading edge of the airbag just beyond the middle of the seat at its farthest back position (see Figure 10).

Scene Clearance:

Both vehicles were towed from the scene due to damage.



Figure 8. Module cover.

Safety Standards:

There were no violations of Federal Motor Vehicle Safety Standards and Regulations found during the inspection of the case vehicle.



Figure 9. Module cover contact to windshield.



Figure 10. Maximum excursion, right front airbag.

DRIVER AND OTHER OCCUPANTS:

VEHICLE 1

DRIVER OCCUPANT 2

Age/Sex: 39/Female 4/Female

Seated Position: Left front Right front

Seat Type: Bucket Bucket

Height: Unknown 112 cm (44 in.)

Weight: Unknown 17 kg (38 lbs.)

Occupation: Unknown None

Pre-existing Medical Unknown None noted Condition:

Alcohol/Drug Involvement: None None

Driving Experience: ≈20 years NA

Body Posture: Normal, upright Facing right

Hand Position: Unknown, presumed both Unknown

on steering wheel

Foot Position: Right foot on brake, left on Unknown

floor

Restraint Usage: Lap and shoulder belts used Lap portion used

Additional Occupants: Yes

DRIVER AND OTHER OCCUPANTS:

VEHICLE 1

Occupant #3

Age/Sex:

7/Female

Seated Position:

Right rear

Seat Type:

Bench

Height:

Unknown

Weight:

Unknown

Occupation:

None

Pre-existing Medical

Unknown

Condition:

Alcohol/Drug Involvement:

None

Driving Experience:

NA

Body Posture:

Unknown

Hand Position:

Unknown

Foot Position:

Unknown

Restraint Usage:

Lap and shoulder used

Additional Occupants:

None

DRIVER AND OTHER OCCUPANTS (con't):

VEHICLE 2

DRIVER

Age/Sex:

47/Male

Seated Position:

Left front

Seat Type:

Bucket

Height:

Unknown

Weight:

Unknown

Occupation:

Unknown

Pre-existing Medical

Unknown

Condition:

Alcohol Involvement:

None

Driving Experience:

≈30 years

Body Posture:

Unknown

Hand Position:

Unknown

Foot Position:

Right presumed to be on

accelerator, left on floorboard

Restraint Usage:

Seatbelts not used, per police

Additional Occupants:

None

INJURIES:

Vehicle 1

<u>INJURY</u>		OIC CODE	ICD-9	SOURCE
DRIVER:	Complained of pain to chest			
R/F OCCUPANT:	Brain stem hemorrhage	140210.5,8	852.0	Airbag
	3 x 5 cm contusion, posterior upper lobe of left lung	441402.3,2	861.21	Airbag
	Cerebellum subarachnoid hemorrhage	140466.3,6	852.0	Airbag
	Posteromedial fractures to ribs 3-7, and 10 with hemothorax	450232.4,2	807.06	Airbag
	Subarachnoid hemorrhage (frontal lobes)	140684.3,9	852.0	Airbag
	Cortical contusions, frontal lobes, bilaterally plus 1 2 x 1 cm contusion to the right posterior parietal region	140622.3,3	851.01	Airbag
	Parenchall disruption. Numerous irregular lacerations to spleen with hemoperitoneum (400 ml)	544226.4,2	865.03	Lap belt
	0.5 cm laceration to liver, posterior to lateral edge	541822.2,1	864.02	Lap belt
	Upper thorax, faint contusions left and right	490402.1,1 490402.1,2	922.1 922.1	Unknown
	Extension injury, C2-C3	650204.2,6		Airbag
	$3/4 \times 1/4$ in. abrasion under chin	390202.1,5	910.0	Airbag
	1 x ½ in. discontinuous linear horizontal abrasion on neck	390303.1,5	910.0	Airbag
	Lip lacerations (2)	290600.1,8 290600.1,8	873.43 873.43	Airbag
	Tongue lacerations (2)	243400.1,8 243400.1,8	873.74 873.74	Airbag
	Fractured lower incisor	251404.1,8	873.63	Airbag
	Fractured mandible	250600.1,9	802.20	Airbag
	Left temple, ½ x 3/8 in. abrasion	290202.1,2	910.0	Airbag

<u>INJURY</u>	OIC CODE	ICD-9	SOURCE
2-1/2 x 1-1/2 in. abrasion left check and jaw	290202.1,2	910.0	Airbag
3/8 x 1/4 in. oval abrasion left forehead	290202.1,2	910.0	Airbag
3/8 x 1/8 in. abrasion above left ear	290202.1,2	910.0	Airbag
5/8 x 1/4 in. abrasion to left ear	290202.1,2	910.0	Airbag
5/8 x 1/4 in. abrasion posterior to left ear	290202.1,2	910.0	Airbag
Linear 3/4 x 1/4 in. abrasion to right side of face	290202.1,1	910.0	Airbag
7/8 x 7/8 in. abrasion to parietal scalp	290202.1,1	910.0	Unknown
Round ½ in. contusion to right distal forearm	790402.1,1	923.1	Unknown
1-1/8 x 5/8 in. contusion to right proximal forearm	790402.1,1	923.10	Unknown
Round ½ in. contusion to right wrist	790402.1, 1	923.2	Unknown
4-1/3 x 2 in. contusion to left posterior proximal left forearm	790402.1,2	923.10	Airbag module cover
Small abrasions to back side of left hand	790202.2,2	913.0	Windshield
Small lacerations to back side of left hand	790600.1,2	913.0	Windshield

R/F OCCUPANT: Complained of pain to right leg

Vehicle 2

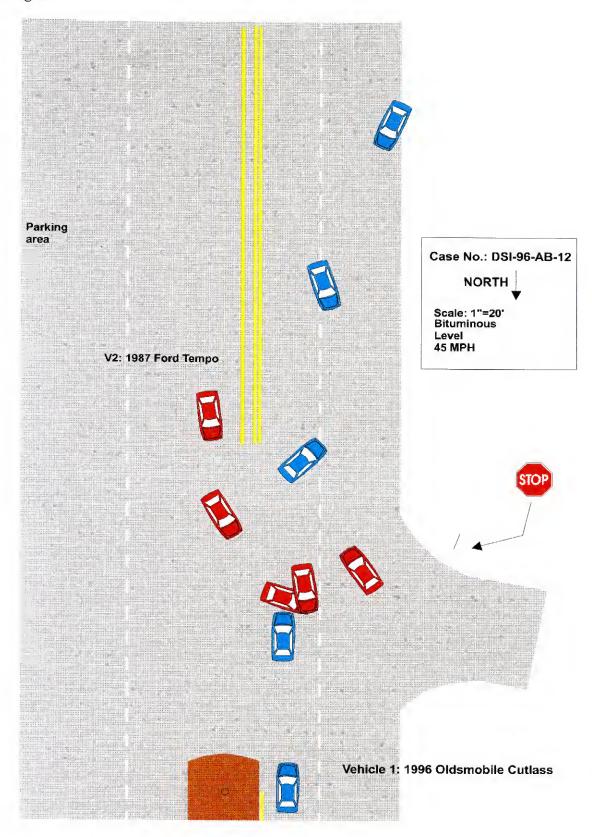
<u>INJURY</u> <u>OIC CODE</u> <u>ICD-9</u> <u>SOURCE</u>

DRIVER: Injured, unknown severity

Abbreviations Used In Scene And Photographic Documentation

ft Feet Inches in Abbreviated Injury Scale AIS Begin Left Front BLF Begin Left Rear BLR **BRF** Begin Right Front BRR Begin Right Rear Cab Behind Engine CBE Counterclockwise **CCW** Collision Deformation Classification CDC Center of Gravity CG CM Centimeter Cab Over Engine COE CWClockwise E, EB East, Eastbound ELF End Left Front ELR End Left Rear **ERF End Right Front End Right Rear** ERR **Final Rest Position** FRP Ι Interstate Highway Intermediate Point IP KG Kilogram Kilometers Per Hour KPH Left Front LF LR Left Rear M Meter North, Northbound N, NB NE Northeast NW Northwest **PDOF** Principal Direction of Force POI Point of Impact RF Right Front Reference Line RLReference Point RP RR Right Rear South, Southbound S, SB Southeast SE SW Southwest T Time or Elapsed Time (in seconds) V1 Vehicle Number 1 W, WB West, Westbound

Diagram



COLLISION MEASUREMENTS

Case Number DSI-96-AB-12

Reference Point:

Utility pole on median

Reference Line:

Left lane marking of NB left turning lane

DATA POINT	LONGITUDINALS	LATERALS
Southbound lanes		
Median	0	5.4 M (16.3 ft.) ERL
Lane 2	0	4 M (12.1 ft.) WRL
Lane 1	0	7.4 M (24.4 ft.) WRL
Shoulder	0	9.8 M (32.1 ft.) WRL
Northbound lanes		
Turn lane	0	4.9 M (16.3 ft.) ERL
Lane 2	0	8.9 M (29.2 ft.) ERL
Lane 1	0	12.3 M (40.3 ft.) ERL
POI	13.6 M (44.5 ft.) SRP	
Vehicle 2 FRP		
LR	14.1 M (46.4 ft.) SRP	6.6 M (21.7 ft.) WRL
LF	16.5 M (54 ft.) SRP	5.6 M (18.25 ft.) WRL
Vehicle 1 FRP		
RF	45.4 M (149.1 ft.) SRP	8.1 M (26.7 ft.) WRL
RR	48.8 M (160.3 ft). SRP	9.1 M (30 ft.) WRL
Asphalt		
Level		

PHOTO INDEX

Case Number: DSI-96-AB-12

PHOTO NO.	VEHICLE NO.	DIRECTION OF PICTURE	SUBJECT MATTER
1-2	1	South	Path to area of impact.
8	1	South	Area of impact.
3	1	North	Looking back along the path of travel.
5	1	North	Looking back along the path of vehicle from area of final rest.
6-7	2	North	Path to area of impact.
8	2	North	Area of impact.
9-10	2	South	Looking back along the path of travel.
11-32	2	CW	Exterior of vehicle.
33-77	2	NA	Interior of vehicle. Note: #40-42 shows blood drip pattern #50-52 shows module contact with windshield. #53-56 shows hand contact #58 shows extent of module contact #62 shows material stuck behind mirror #65-72 shows contact to module cover





















BESTAVAILABLE















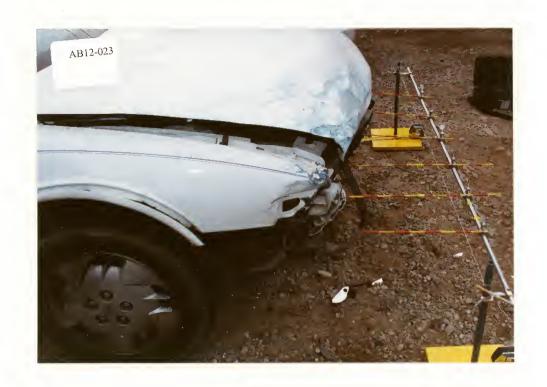






































































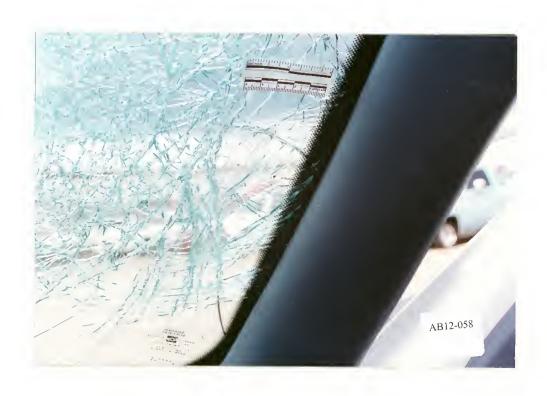








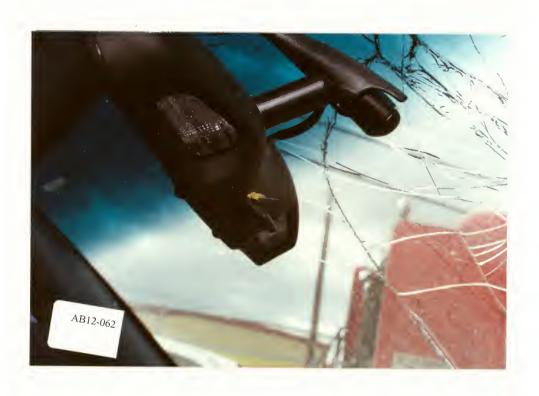
































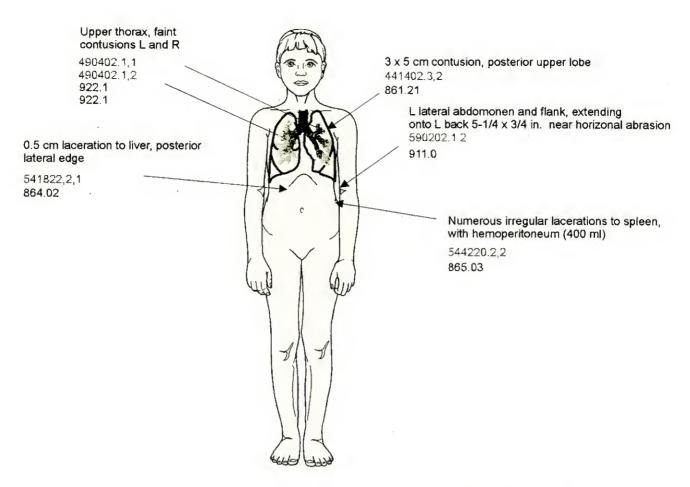


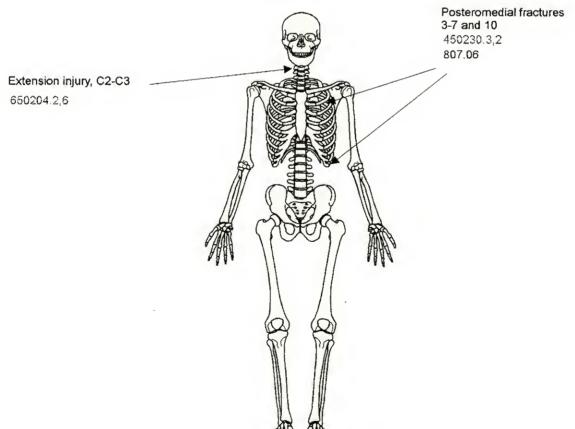


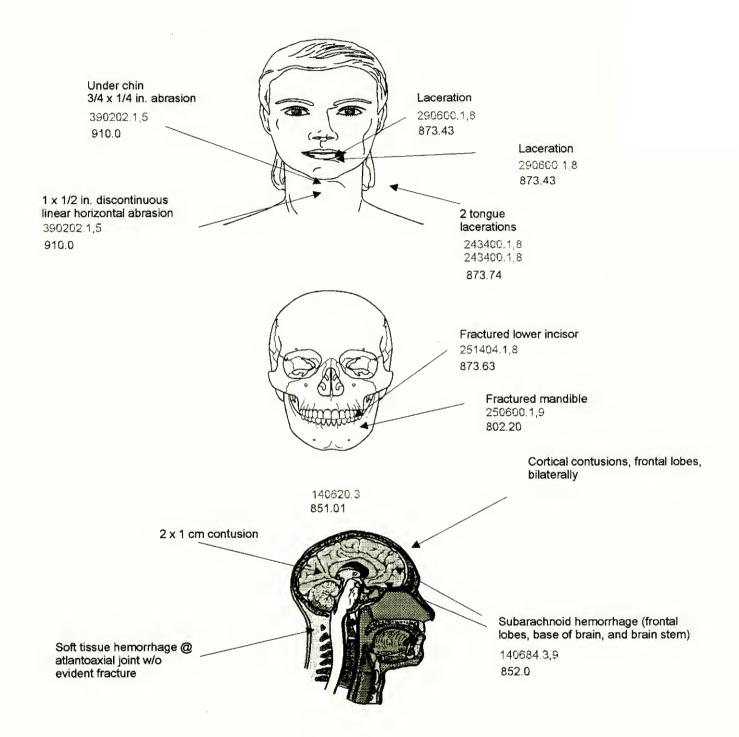




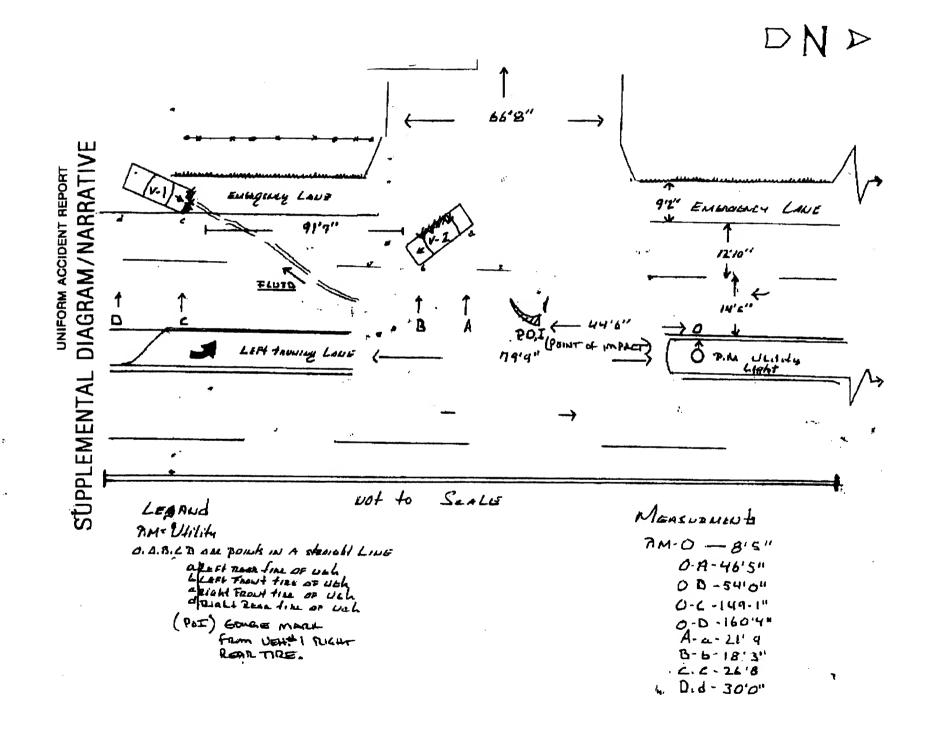








L. forehead 3/8 x 1/4 oval abrasion 290202.1,2 L. temple 1/2 x 3/8 abrasion 3/8 x 1/8 abrasion 290202.1,2 910.0 290202 1,2 910.0 910.0 posterior L ear 5/8 x 1/4 abrasion 3/8 x 1/4 abrasion 290202 1.2 290202.1.2 ~ 910.0 910.0 L. cheek/jaw 2-1/2 x 1-1/2 in. abrasion -290202.1,2 910.0 5/8 x 1/4 in. abrasion 290202.1,2 Contusion surrounding R eye 910.0 290402,1,1 921.2 Linear 3/4 x 1/4 in. abrasion 4-1/4 x 2 in. contusion 290202.1,1 790402.1.2 910.0 923.10 $7/8 \times 7/8$ in. abrasion Multiple small 290202.1,1 abrasions and 910.0 lacerations 790202.1,2 790600.1,2 Contusion, 1-1/8 x 5/8 in. 790402.1,1 913.0 923.10 Contusion, round 1/2 in. 790402.1,1 923.1 Contusion, round 1/2 in. 790402.1,1 923.2



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UNIFORM ACCIDENT REPORT

SUPPLEMENTAL DIAGRAM/NARRATIVE

On this Officer was standing in front of the when I heard a loud crash. Myself and other Officers present got into our units and proceeded just north of the Upon arrival, this Officer saw two cars which were involved in a Accident. Driver and passengers of vehicle (1) were taken by

by personnel vehicle. Vehicle to the (2) driver was pinned inside vehicle (2). After extrication of driver (2)

he was taken to the Accident investigation revealed that vehicle (1) was traveling south bound on on the passing lane. Vehicle (2) was in the left turning lane awaiting traffic to clear. Vehicle (2) proceeded to make a left turn. Vehicle (1) was unable to take evasive action and struck vehicle [2] on the right side of vehicle. Vehicle (2) at fault.

Driver of vehicle (1) stated that as she was traveling south on she didn't see the car pull out in front of her. Driver of vehicle (2) was unavailable for statement, as he was admitted to the

Witness (1) states vehicle (2) tried to beat traffic by crossing witness (2) states that as vehicle (2) crossed he was struck by vehicle [1].

Enforcement action is pending at this time as contact needs to be made through

UNIFORM ACCIDENT REPORT

SUPPLEMENTAL DIAGRAM/NARRATIVE

Vehicle (1) driver complained of chest injuries. Right near passenger complained of right leg injuries and right front passenger was pronounced deceased at 1950 hours.

Vehicle (2) driver was admitted to

for his injuries.

SUPPLEMENTAL DIAGRAM/NARRATIVE

ASSIGNMENT = Motor Vehicle Accident - Two Vehicles

SCENE =

and

INVESTIGATION = White vehicle #1 - traveling south bound on inside lane.

on

Blue vehicle #2 - attempting to make left turn from north bound

VEHICLE DAMAGE = Damage to White vehicle #1 - Front end windshield - Air bag.

Damage to Blue vehicle #2 to right front door and rear door.

EVIDENCE = Photo's by

Measurements by

Traffic Control by

On scene supervisor

National Highway Traffic Safety

ACCIDENT FORM NATIONAL ACCIDENT SAMPLING SYSTEM

Administration		Aoon	JEITT TO	1171	CRASHWORTHINE	SS DATA SYSTE
1. Primary Samp	oling Unit Number			SPECIAL STUDIE	S - INDICAT	ORS
2. Case Number	- Stratum	AB 12	— has be	een completed; code	1 for the che	cked special
	IDENTIFICATION	ON	studie	s and 0 for the speci	al studies not ch	necked.
Number of Ge Forms Submit	eneral Vehicle	φ 2	6	SS15 Administ	rative Use	Φ
4. Date of Accid		// 9	<u>6</u>	SS16 Pedestria (Data for this speci in a separate file.)		tudy <u>0</u>
5. Time of Accid	dent	_17 17	8	SS17 Impact F	ires	4
Code repo	orted military time	of accident.	9	SS18 Unsafe D	Priver Actions	φ
3	Midnight = 2400 Inknown = 9999		10	\$\$19		<u> </u>
				NUMBER C	E EVENTS	
				lumber of Recorded E n This Accident	ents	<u> </u>
			1	Code the number of en this accident.	vents which oc	curred
		ACCID	ENT EVEN	TS		
	hat occurred in the or object in the rig		lowest numbe	red vehicle in the left	columns and the	e other
Accident Event			General	Vehicle Number		General
Sequence Number	Vehicle Number	Class Of Vehicle	Area of Damage	or Object Contacted	Class Of Vehicle	Area of Damage
12. <u>0 1</u>	13. <u>φ</u> /	14. <u>ϕ</u> 3	15. <u>/</u>	16. <u>\$\Phi\$\mathbb{2}\$</u>	17. <u>ϕ /</u>	18
19. <u>0 2</u>	20	21	22	23	24	25
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33. <u>0 4</u>	34	35	36	37	38	39
40. <u>0</u> <u>5</u>	41	42	43	44	45	46

IF GREATER THAN FIVE EVENTS, CONTINUE CODING ON THE ACCIDENT EVENT SUPPLEMENT

GENERAL VEHICLE FORM

National Highway Traffic Safety Administration	GENERAL VE	HICLE FORM NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM
Primary Sampling Unit Number Case Number - Stratum Wehicle Number	AB 12 	12. Speed Limit (000) No statutory limit Code posted or statutory speed limit in kmph (999) Unknown
4. Vehicle Model Year Code the last two digits of the mod (99) Unknown 5. Vehicle Make (specify): OLDS MOBILE Applicable codes are found in you		 45 mph X 1.6093 = 47 kmph 13. Police Reported Alcohol Presence For Driver (0) No alcohol present (1) Yes alcohol present (7) Not reported (8) No driver present (9) Unknown
NASS Data Collection, Coding and Editing Manual. (99) Unknown 6. Vehicle Model (specify): CUTLASS Applicable codes are found in you NASS Data Collection, Coding and Editing Manual.	d Φ2Φ	14. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given (97) AC test performed, results unknown (98) No driver present (99) Unknown Source:
7. Body Type Note: Applicable codes may be for the back of this page. 8. Vehicle Identification Number		15. Police Reported Other Drug Presence For Driver (0) No other drug(s) present (1) Yes other drug(s) present (7) Not reported (8) No driver present (9) Unknown
1 2 3 4 5 6 7 8 9 10 11 Left justify; Slash zeros and letter 2 No VIN—Code all Unknown—Code all nines 9. Vehicle Special Use (This Trip)	12 13 14 15 16 17	16. Other Drug Specimen Test Result For Driver (0) No specimen test given (1) Drug(s) not found in specimen (2) Drug(s) found in specimen, (specify):
 (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police (6) Ambulance (7) Fire truck or car (8) Other (specify): 		(3) Specimen test given, results unknown or not obtained (8) No driver present (9) Unknown if specimen test given 17. Driver's Zip Code (00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code
(9) Unknown OFFICIAL RECOR	RDS	(99998) No driver present (99999) Unknown
 10. Police Reported Vehicle Dispositio (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown 11. Police Reported Travel Speed Code to the nearest kmph (NOTE: less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown mph X 1.6093 = kmph 	9 9 9 000 means	18. Driver's Race/Ethnic Origin (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (7) Other (specify): (8) No driver present (9) Unknown

CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 4,500 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Passport, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Hummer, Landcruiser, Rover, Scout, Yukon)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 4,500 kgs GVWR)

- (20) Minivan (Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Vista, Aerostar, Windstar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Expo Wagon, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,500 kgs GVWR)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4.500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup style cab, ≤ 4,500 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500, T100)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 4,500 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 4.500 kgs GVWR)

- (60) Step van (> 4,500 kgs GVWR)
- (61) Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs)
- (62) Single unit straight truck (8,850 kgs < GVWR ≤ 12,000 kgs)
- (63) Single unit straight truck (> 12,000 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):_____
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

	DDECDACH ENVIRONMENTAL DATA			
	PRECRASH ENVIRONMENTAL DATA	25	Boodway Surface Condition	/
		25.	Roadway Surface Condition	
19.	Relation To Interchange Or Junction		(1) Dry	- 1
	(0) Non-interchange area and non-junction		(2) Wet	
	(1) Interchange area related	1	(3) Snow or slush	1
	(1) interestange area related		(4) Ice	
	Non Interchange iunctions		(5) Sand, dirt, or oil	1
	Non-Interchange junctions		(8) Other (specify):	
	(2) Intersection related		(9) Unknown	
	(3) Driveway, alley access related		(5) STIKITOWIT	
	(4) Other junction (specify)			_
		26.	Light Conditions	5
	(5) Unknown type of junction		(1) Daylight	
		ŀ	(2) Dark	Į.
	(9) Unknown		(3) Dark, but lighted	l
	()		, ,	I
			(4) Dawn	
20	Trofficuov Flour		(5) Dusk	
20.	Trafficway Flow		(9) Unknown	
	(0) Not physically divided (two way traffic)			
	(1) Divided trafficway-median strip without positive			
	barrier	27.	Atmospheric Conditions	Ø
	(2) Divided trafficway-median strip with positive barrier		(0) No adverse atmospheric-related driving	
	(3) One way traffic	ŀ	conditions	l
	(9) Unknown	Ī		
			(1) Rain	
	2		(2) Sleet/hail	
21.	Number Of Travel Lanes		(3) Snow	
	(1) One		(4) Fog	1
	(2) Two	1	(5) Rain and fog	1
	(3) Three		(6) Sleet and fog	
	(4) Four	ŀ	(7) Other (e.g., smog, smoke, blowing sand or	dust.
	(5) Five		etc.) (specify):	- '
	· ·	l	(9) Unknown	
	(6) Six		(o) Shkriown	1
	(7) Seven or more	၂ ၁၀	Traffic Control Device	Ø
	(9) Unknown	20.		
			(0) No traffic control(s)	
22	Roadway Alignment 3	ł	(1) Traffic control signal (not RR crossing)	
22.				
	(1) Straight		Regulatory	
	(2) Curve right		(2) Stop sign	1
	(3) Curve left		(3) Yield sign	
	(9) Unknown		(4) School zone sign	
			(5) Other regulatory sign (specify):	
	D. I. D. C.		() - 3 - (
∠3.	Roadway Profile		(6) Warning sign (not RR crossing)	
	(1) Level		(7) Unknown sign	
	(2) Uphill grade (>2%)			
	(3) Hill crest		(8) Miscellaneous/other controls including RR	
	(4) Downhill grade (>2%)		controls (specify):	
	(5) Sag			
	(9) Unknown		(9) Unknown	
	(O) CHRIOWII			
24.	Roadway Surface Type	29.	Traffic Control Device Functioning	Ø
	(1) Concrete		(0) No traffic control device	
	(2) Bituminous (asphalt)		` '	
			(1) Traffic control device not functioning	
	(3) Brick or block		(specify)	
	(4) Slag, gravel, or stone	:		
	(5) Dirt		(2) Traffic control device functioning properly	
	(8) Other (specify):		(9) Unknown	
	(9) Unknown			
	1			

	PRECRASH DRIVER RELATED DATA	This Vehicle Traveling
(Oriver's Distraction/Inattention To Driving Prior To Recognition Of Critical Event) O0) No driver present O1) Attentive or not distracted O2) Looked but did not see Distractions O3) By other occupant(s), (specify): O4) By moving object in vehicle (specify): O5) While talking or listening to cellular phone (specify)	This Vehicle Traveling (10) Over the lane line on left side of travel lane (11) Over the lane line on right side of travel lane (12) Off the edge of the road on the left side (13) Off the edge of the road on the right side (14) End departure (15) Turning left at intersection (16) Turning right at intersection (17) Crossing over (passing through) intersection (18) This vehicle decelerating (19) Unknown travel direction
	location and type of phone): While dialing cellular phone (specify location and type of phone):	Other Motor Vehicle In Lane (50) Other vehicle stopped (51) Traveling in same direction with lower steady speed (52) Traveling in same direction while decelerating
((While adjusting climate controls While adjusting radio, cassette, CD (specify):	(53) Traveling in same direction with higher speed(54) Traveling in opposite direction(55) In crossover
(Sleepy or fell asleep 10) Sleepy or fell asleep 11) Distracted by outside person, object, or event	(59) Unknown travel direction of other motor vehicle in lane
(1	(specify): Eating or drinking Smoking related Distracted/inattentive, details unknown Other, distraction (specify):	 (60) From adjacent lane (same direction)—over left lane line (61) From adjacent lane (same direction)—over right lane line (62) From opposite direction—over left lane line
31. PR (00 (00 (00 (00 (00 (00 (00 (00 (00 (0	re-Event Movement (Prior to ecognition of Critical Event) No driver present Going straight Decelerating in traffic lane Accelerating in traffic lane Stopped in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Eventing a parking position Entering a parking position Turning right Turning left Making a U-turn Backing up (other than for parking position) Negotiating a curve Changing lanes Merging Successful avoidance maneuver to a previous critical event Unknown	 (64) From parking lane (65) From crossing street, turning into same direction (66) From crossing street, across path (67) From crossing street, turning into opposite direction (68) From crossing street, intended path not known (70) From driveway, turning into same direction (71) From driveway, across path (72) From driveway, turning into opposite direction (73) From driveway, intended path not known (74) From entrance to limited access highway (78) Encroachment by other vehicle—details unknown Pedestrian, Pedalcyclist, or Other Nonmotorist (80) Pedestrian in roadway (81) Pedestrian approaching roadway (82) Pedestrian—unknown location (83) Pedalcyclist or other nonmotorist in roadway (specify): (84) Pedalcyclist or other nonmotorist approaching roadway, (specify): (85) Pedalcyclist or other nonmotorist—unknown location (specify): (95) Pedalcyclist or other nonmotorist—unknown location (specify): Object or Animal (87) Animal in roadway
(O:	itical Precrash Event is Vehicle Loss of Control Due To: 1) Blow out or flat tire 2) Stalled engine 3) Disabling vehicle failure (e.g., wheel fell off) (specify): 4) Non-disabling vehicle problem (e.g., hood flew up) (specify): 5) Poor road conditions (puddle, pot hole, ice, etc.) (specify): 6) Traveling too fast for conditions 3) Other cause of control loss (specify):	(88) Animal approaching roadway (89) Animal—unknown location (90) Object in roadway (91) Object approaching roadway (92) Object—unknown location (98) Other critical precrash event (specify): (99) Unknown
31. PR (00 (00 (00 (00 (00 (00 (00 (00 (00 (0	location and type of phone): While dialing cellular phone (specify location and type of phone): While adjusting climate controls While adjusting radio, cassette, CD (specify): While using other device/object in vehicle (specify): While using other device/object in vehicle (specify): Sleepy or fell asleep It) Distracted by outside person, object, or event (specify): Eating or drinking Smoking related Distracted/inattentive, details unknown Other, distraction (specify): Unknown re-Event Movement (Prior to ecognition of Critical Event) No driver present Coing straight Decelerating in traffic lane Starting in traffic lane Stopped in traffic lane Stopped in traffic lane Event Movement (Prior to ecognition of Critical Event) Accelerating in traffic lane Coing straight Decelerating in traffic lane Event Movement (Prior to ecognition of Critical Event) Accelerating in traffic lane Coing straight Decelerating in traffic lane Stopped in traffic lane Event Stopped in traffic lane Coing Starting position Turning right Turning left Making a U-turn Backing up (other than for parking position) Negotiating a curve Changing lanes Merging Successful avoidance maneuver to a previous critical event Changing lanes Merging Unknown Mitical Precrash Event Mis Vehicle Loss of Control Due To: Blow out or flat tire Stalled engine Disabling vehicle failure (e.g., wheel fell off) (specify): Non-disabling vehicle failure (e.g., wheel fell off) (specify): Poor road conditions (puddle, pot hole, ice, etc.) (specify): Traveling too fast for conditions	(50) Other vehicle stopped (51) Traveling in same direction with lower steady speed (52) Traveling in same direction while deceleratin (53) Traveling in same direction with higher speed (54) Traveling in opposite direction (55) In crossover (56) Backing (59) Unknown travel direction of other motor vehiclane Other Motor Vehicle Encroaching Into Lane (60) From adjacent lane (same direction)—over lease line (61) From adjacent lane (same direction)—over relate line (62) From opposite direction—over right lane line (63) From opposite direction—over right lane line (64) From parking lane (65) From crossing street, turning into same direction (66) From crossing street, turning into opposite direction (67) From driveway, turning into apposite direction (68) From crossing street, intended path not know (70) From driveway, turning into opposite direction (71) From driveway, turning into opposite direction (73) From driveway, turning into opposite direction (73) From driveway, intended path not known (74) From entrance to limited access highway (78) Encroachment by other vehicle—details unknown Pedestrian, Pedalcyclist, or Other Nonmotorist (80) Pedestrian in roadway (81) Pedestrian approaching roadway (82) Pedalcyclist or other nonmotorist approaching roadway, (specify): (84) Pedalcyclist or other nonmotorist approaching roadway, (specify): (85) Pedalcyclist or other nonmotorist approaching roadway, (specify): (86) Pedalcyclist or other nonmotorist—unknown location (specify): (87) Animal in roadway (88) Animal approaching roadway (89) Animal—unknown location (90) Object munknown location (90) Object munknown location (91) Object approaching roadway (92) Object—unknown location (93) Other critical precrash event (specify):

(09) Unknown cause of control loss

 33. Attempted Avoidance Maneuver (00) No driver present (01) No avoidance maneuver (02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes (06) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering right (10) Accelerating (11) Accelerating and steering left (12) Accelerating and steering right (98) Other action (specify): (99) Unknown 	35. Pre-Impact Location (0) No driver present (1) Stayed in original travel lane (2) Stayed on roadway but left original travel lane (3) Stayed on roadway, not known if left original travel lane (4) Departed roadway (5) Remained off roadway (6) Returned to roadway (7) Entered roadway (9) Unknown 36. Accident Type (Note: Applicable codes on back of this page) (00) No impact Code the number of the diagram that best
34. Pre-Impact Stability (0) No driver present (1) Tracking (2) Skidding longitudinally—rotation less than 30 degrees (3) Skidding laterally—clockwise rotation (4) Skidding laterally—counterclockwise rotation (7) Other vehicle loss-of-control (specify): (9) Precrash stability unknown	describes the accident circumstance (98) Other accident type (specify): (99) Unknown

STOP HERE IF GV07 DOES NOT EQUAL 01 - 49

CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) No rollover (01-30) — Vehicle Number	(57) Fence (58) Wall
Monadiaian	(59) Building
Noncollision (31) Turn-over — fall-over	(60) Ditch or culvert
	(61) Ground
(32) No rollover impact initiation (end-over-end)	(62) Fire hydrant
(34) Jackknife	(63) Curb
Callinian Mith Fired Object	(64) Bridge
Collision With Fixed Object	(68) Other fixed object (specify):
(41) Tree (≤ 10 cm in diameter)	
(42) Tree (> 10 cm in diameter)	(69) Unknown fixed object
(43) Shrubbery or bush	
(44) Embankment	Collision with Nonfixed Object
	(70) Passenger car, light truck, van, or other vehicle
(45) Breakaway pole or post (any diameter)	not in-transport
	(71) Medium/heavy truck or bus not in-transport
Nonbreakaway Pole or Post	(76) Animal
(50) Pole or post (≤ 10 cm in diameter)	(77) Train
(51) Pole or post (> 10 cm but ≤ 30 cm in diameter)	(78) Trailer, disconnected in transport
(52) Pole or post (> 30 cm in diameter)	(79) Object fell from vehicle in-transport
(53) Pole or post (diameter unknown) ´	(88) Other nonfixed object (specify):
, , , , , , , , , , , , , , , , , , , ,	(co) cuito inclinada object (opeciny).
(54) Concrete traffic barrier	(89) Unknown nonfixed object
(55) Impact attenuator	(55) STIMIOWIT HOTHIXEG OBJECT
(56) Other traffic barrier (includes guardrail)	(98) Other event (specify):
(specify):	(50) Other event (specify).
(opeony)	(99) Unknown event or object
	(00) Chandan event of object

	OCCUPANT RELATED	44. Vehicle Cargo Weight ϕ , ϕ ϕ 0
37.	Driver Presence in Vehicle (0) Driver not present (1) Driver present (9) Unknown	Code weight to nearest 10 kilograms. (000) Less than 5 kilograms (450) 4,500 kilograms or more (999) Unknown
38.	Number of Occupants This Vehicle (00-96) Code actual number of occupants for this vehicle	
	(97) 97 or more (99) Unknown	ROLLOVER DATA
39.	Number of Occupant Forms Submitted ϕ 3	45. Rollover (00) No rollover (no overturning) Φ Φ
	AIR BAG RELATED	Rollover (primarily about the longitudinal axis) (01-16) Code the number of quarter turns
40.	Is this an AOPS Vehicle? (0) No (includes unknown)	(17) Rollover, 17 or more quarter turns (specify): (98) Rollover–end-over-end (i.e., primarily about
1	(1) Yes - researcher determined (2) VIN determined air bag system	(98) Rollover-end-over-end (i.e., primarily about the lateral axis) (99) Rollover (overturn), details unknown
	(3) VIN determined automatic (passive) belts (4) VIN determined air bag and automatic (passive) belts	46. Rollover Initiation Type φ
41.	Air Bag(s) Deployment, First Seat Frontal (0) Not equipped or not available (1) No air bags deployed	(00) No rollover (01) Trip-over (02) Flip-over (03) Turn-over
	Single Air Bag Vehicle (2) Driver air bag deployed (3) Driver air bag, unknown if deployed	(04) Climb-over (05) Fall-over (06) Bounce-over (07) Collision with another vehicle (08) Other rollover initiation type specify):
	Multiple Air Bag Vehicle (4) Driver side only deployed (5) Passenger side only deployed (6) Driver and passenger side deployed (7) Driver and passenger side unknown if deployed	 (98) Rollover-end-over-end (99) Unknown rollover initiation type 47. Location of Rollover Initiation
4 2.	(8) Air bag(s) deployed, details unknown (9) Unknown Air Bag(s) Deployment, Other Than First Seat Frontal	(0) No rollover (1) On roadway (2) On shoulder—paved (3) On shoulder—unpaved (4) On roadside or divided trafficway median (8) Rollover—end-over-end (9) Unknown
	 (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown 	48. Rollover Initiation Object Contacted (Note: Applicable codes on back of page)
	 Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) Unknown if deployed Nondeployed 	 49. Location on Vehicle Where Initial Principal
	(9) Unknown Specify type of "other" air bag present:	(2) Side plane (3) End plane (4) Undercarnage (5) Other location on vehicle (specify):
		(6) Non-contact rollover forces (specify):
	VEHICLE WEIGHT ITEMS	(8) Rollover-end-over-end (9) Unknown
43	Vehicle Curb Weight	50. Direction of Initial Roll (0) No rollover (1) Roll right - primarily about the longitudinal axis (2) Roll left - primarily about the longitudinal axis (8) Rollover—end-over-end (9) Unknown roll direction
	Source:	

OVERRIDE/UNDERRIDE (THIS VEHICLE)	ACCIDENT RECONSTRUCTION PROGRAMS
51. Front Override/Underride (this Vehicle)	
 52. Rear Override/Underride (this Vehicle) (0) No override/underride, or not an end-to-end impact between two CDS applicable vehicles, an no medium/heavy truck or bus underride 	(highest)
Override (see specific CDC) [Between 2 CDS applicable vehicles (Bodytype, GV07=1-49)] (1) 1st CDC (2) 2nd CDC (3) Other not automated CDC (specify):	Delta V Calculated (01) Reconstruction program -damage only routine (02) Reconstruction program -damage and trajectory routine (03) Missing vehicle algorithm
Underride (see specific CDC) [Between 2 CDS applicable vehicles (Bodytype, GV07=1-49)] (4) 1st CDC (5) 2nd CDC (6) Other not automated CDC (specify):	Delta V Not Calculated (04) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.
 (7) Medium/heavy truck or bus override (of any configuration) (9) Unknown HEADING ANGLE AT IMPACT FOR 	All vehicles within scope (CDC applicable) of reconstruction program but one of the collision conditions is beyond the scope of the reconstruction program or other acceptable reconstruction
HIGHEST DELTA V	technique, regardless of adequacy of damage data.
Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown	(05) Rollover (06) Other non-horizontal forces (07) Sideswipe type damage
53. Heading Angle For This Vehicle / 8 4	(08) Severe override (09) Yielding object
54. Heading Angle For Other Vehicle <u>Z 9 Ф</u>	(10) Overlapping damage(11) All vehicle and collision conditions are within
RECONSTRUCTION DATA 55.Towed Trailing Unit (0) No towed unit (1) Yes—towed trailing unit	scope of one of the acceptable reconstruction programs, but there is insufficient data available, (98) Other, (specify):
(9) Unknown 56. Documentation of Trajectory Data for This Vehicle (0) No (1) Yes	
57. Post Collision Condition of Tree or Pole (For Highest Delta V) (0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted <45 degrees (4) Tilted ≥45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify):	
(9) Unknown	1

COMPUTER GENERAT	TED CRASH SEVERITY
59. Total Delta V	Highest G3. Impact Speed Nearest kmph (highest) Nearest kmph (secondary) (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (998) Trajectory algorithm not run (999) Unknown DELTA V CONFIDENCE LEVEL 64. Confidence In Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable
Nearest kmph (highest) Nearest kmph (secondary) (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (_999) Unknown 62. Energy Absorption Nearest 100 joules (highest) Nearest 100 joules (secondary) (NOTE: 0000 means less than 50 joules) (9997) 999,650 joules or more (9999) Unknown	Highest 65. Barrier Equivalent Speed 23.9 Nearest kmph (highest) Nearest kmph (secondary) (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown

IS MISSING VEHICLE ALGORITHM APPLICABLE FOR THIS VEHICLE? [YYES [] NO IF YES: IS A COMPLETED PROGRAM SUMMARY INCLUDED? [YYES [] NO

ESTIMATED DELTA V	VEHICLE INSPECTION						
66. Estimated Highest Delta V (Researcher Determined) (0) Reconstruction Delta V coded Estimated Delta V (1) Less than 10 kmph (2) ≥ 10 kmph but < 25 kmph (3) ≥ 25 kmph but < 40 kmph (4) ≥ 40 kmph but < 55 kmph (5) ≥ 55 kmph Other estimates of damage severity (6) Minor (7) Moderate (8) Severe (9) Unknown	67. Type of Vehicle Inspection (0) No inspection (1) Vehicle fully repaired-no damage evident (2) Partial inspection (specify): (3) Complete inspection						

*** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV67=0), ***

DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE ***

THE EXTERIOR VEHICLE, INTERIOR VEHICLE,

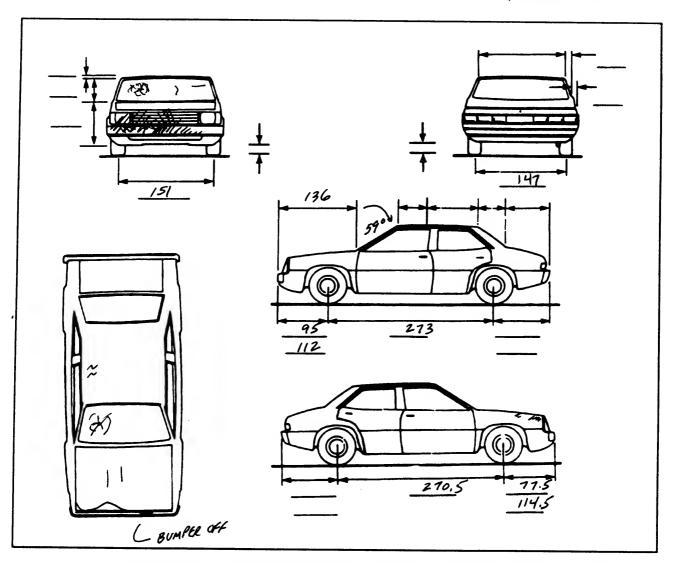
OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

National High Administratio	way Traffic Safety n	E	KTERIO	R VEH	ICLE	FORM	/ ·	ATIONAL CRAS	ACCIDENT HWORTHI	SAMPLIN	IG SYSTEN
	ary Sampling Unit Nu Number - Stratum		B 1 2	- 1	3. Vehicle Number					4	
			VEHICLE	IDENT	TFICA	TION					
	G 3 W H										
Venicle M	ake (specify): <i>QLD</i> .	SMOBILE			Vehicle I	Model (s _l	pecify): _	CUTUSS	SUPRE	ME 5L	4 DR.
				OCAT							
Locate th	e end of the damage ed axle for side impa	e with respect	to the vehic	cle longit	udinal ce	enter line	or bum	per corn	er for en	d impac	ts or an
Specific Imp		n of Direct Dama	ge *		Locatio	on of Field	L		Location	of Max Cru	ieh
										or wiax ore	311
	1 @RF B	NHPEL COR	NER _						C4 - C4		
		CRU	SH PROF	ILE IN	CENTI	METE	RS				
i o Specific	Measure C1 to C6 fr Free space value is on the condition of the conditions of the co	defined as the This may in e for each C- Dlumns as ne	e distance be aclude the formeasurement cessary to distance	etween the blowing:	ne baseli bumper naximum each dar	ine and the lead, but a crush.	the origin imper tar porter a ofile.	al body	oontour 1	taken at on, side	46-
Impact Number	C-Measurements	Width (CDC)	Max Crush	L	C,	C ₂	C ₃	C.	C₅	G ₆	±D
		1 /							11.27.75		
1	BUMPER	114	40	117	16.5	19.5	25	35	40	38	+13
	-GAP FASCIA TO										,,,
	HONEYCOMIZ	-	- 3.5		-3.5	-3.5	-3.5	-3.5	-3.5	-3.5	
	- HONEY COMB				/	/	_	/	1	-5	
	- FREE SPACE		-7		-11	-7	-2	-2	-7	-11	
	FINAL		29.5		٦	9	19.5	29.5	29.5	18.5	
		-									
		 									
		, ,									1 1

	VEHICLE DAMAGE	SKETCH		
TIRE—WHEEL DAMAGE a. Rotation physically b. Tire restricted deflated RF	ORIGINAL SPECIF NVMA Wheelbase Overall Length Maximum Width Curb Weight Average Track	213 492.3 182.7 1544 149	cm cm cm kg	WHEEL STEER ANGLES (For locked front wheels or displaced rear axles only) RF ±
TYPE OF TRANSMISSION ☐ Manual ☐ Automatic END SHIFT ≥ 10 CM ☐ Yes ☐ No	Front Overhang Rear Overhang Undeformed End Width Engine Size: cyl./displ.	108.3	cm cm cm	DRIVE WHEELS DFWD RWD 4WD Approximate Cargo Weightkg

MEASUREMENTS IN CENTIMETERS

ANTILOCK BLACES



NOTES: Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewalls, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page.

Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

A	alional A	ccident Sampii	ng System-Cra					enicle Form		Page
				CDC V	NORKSHE	ET				
				CODES FOR	OBJECT CON	NTA	CTED			
	(01-30)	Vehicle Num	nber		(5)	7) F	ence			
	, ,						Vall			
	Noncoll	ision					Building			
	(31)	Overturn — ro	llover (excludes	end-over-end)			Ditch or o	culvert		
		Rollover-end					Fround	Janvon		
		Fire or explosion					ire hydr	ant		
		Jackknife			(6:		Curb	ant		
	` '		damage (specif	v).	(64		Bridge			
	(00)		damage (opcon	3 7.	(68			ed object (sp	ecifv):	
		Noncollision in				_				
	(38)	Other noncollis	sion (specify):		(69	9) L	Jnknowr	fixed object		
	(39)	Noncollision —	- details unknow	n	— Collis	sion v	with Non	fixed Object		
	(55)	11011001101011	dotallo di littioni	••					ruck von er	other vehicle
	Collision	n With Fixed Ob	iect		(//	υ <i>)</i> Γ	ot in-tra	er car, light t	ruck, van, or	other vehicle
		Tree (≤ 10 cm			(7)					
		Tree (> 10 cm			(7	ו) ו	/lealum/i	heavy truck o	or bus not in-	transport
							edestria			
		Shrubbery or b Embankment	ousn		(7)	3) (Cyclist or	cycle		
	(44)	Embankment			(/4	4) C	other no	nmotorist or	conveyance	
	(45)	Breakaway pol	e or post (any d	iameter)	(75	5) V	/ehicle c	occupant	*	
				•	(76		nimal			
	Nonbrea	akaway Pole or	Post		(77	•	rain			
			10 cm in diame	ter)	(78	•		isconnected	in transport	
			10 cm but ≤ 30					II from vehic		rt
			30 cm in diame		,			nfixed object		
	(53)		iameter unknow		(0.	٠, ٠	<i>y</i> anor 110	mixed object	(Specify).	
				·	(89	9) ī	Jnknowr	nonfixed ob	ject	
		Concrete traffic Impact attenua			(0)	a) c	NAL			
	(56)	Other traffic ba	irner (includes g	uardrail)	(98	o) (otner ev	ent (specify):		
	()				(99	9) ī	Jnknowr	event or ob	iect	
					_ `			•		
			DEFORM	ATION CLASS	SIFICATION B					
	Accident		(1) (2)				(4) ecific	(5) Specific	(6)	
	Event		Direction	Incremental	(3)		gitudinal	Vertical or	Type of	(7)
	Sequence	Object	of Force	Value of	Deformation		Lateral	Lateral	Damage	Deformation
	Number	Contacted	(degrees)	Shift	Location		cation	Location	Distribution	Extent
•	A 1	02	-5							
-	φ1	<u>φ2</u>		$\phi \phi$	<u> </u>	_	<u>D</u> _	E	<u>~</u>	<u> </u>
-				·		_				
		_								
										
-						-				
-						_				
-						_				
_									_	
						_				
-		- 				_				

							Page 4
		COLLISION	N DEFORMA	TION CLAS	SIFICATIO	N	
HIGHEST	DELTA "V"						
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
4. <u> </u>	5. <u>4</u> 2	6	7. <u> </u> <u> </u> <u> </u>	8. <u>D</u>	9 <u> </u>	10. <u>W</u>	11. <u> </u>
Second Hi	ighest Delta "V"						
12	_ 13		15	16	17	18	19
		CRUS	H PROFILE	IN CENTIM	ETERS		
	The crush point the app	rofile for the da	mage described below. (ALL ME	I in the CDC(s) a	above should be	odocumented (IMETERS.)	
HIGHEST	DELTA "V"						
20. L	21. 				C ₅	<u>C₆</u>	22. ±D
<u> </u>	φφz	φ φ 9	φ 2 φ _ (<u>φ3φ</u> φ	<u>3</u> • _ •	<u> 19 -</u>	\$ 13
Second Hiç	ghest Delta "V"						
23. L	24. 				C ₅	C ₆	25. ±D
		 -				<u> </u>	
(Coded impact (250) (998)	ormed End Width I when highest se is an end plane i Code to the nea 250 centimeters No highest seve Unknown	everity impact.) arest centimeter s or more		(650) (999)		s or more	2 1 3
(For hig ((250)	Damage Width ghest severity imp Code to theneare 250 centimeters Unknown	est centimeter	114	(185)	I Average Track Code to the nea centimter 185 centimeters Unknowniinches X 2	arest	1 4 9

			FUEL SYSTEM
30.	Are CDCs Documented but Not Coded on The	\$	35. Location of Fuel Tank-1 Filler Cap
	Automated File? (0) No (1) Yes		36. Location of Fuel Tank-2 Filler Cap (0) No fuel tank (1) On back plane (2) Aft of center of the rear wheels (rear axle) on left side plane
	Researcher's Assessment of Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown	<u></u>	 (3) Aft of center of the rear wheels (rear axle) on right side plane (4) Forward of center of the rear wheels (rear axle) on left side plane (5) Forward of center of the rear wheels (rear axle) on right side plane (6) Over the center of the rear wheels (rear axle) on left side plane (7) Over the center of the rear wheels (rear axle)
3 2.	Is This A Multi-Stage Manufactured Vehicle And/Or A Certified Altered Vehicle? (0) No post manufacturer modifications (1) Yes - post manufacturer modifications (specify):		on right side plane (8) Other (specify): (9) Unknown 37. Type of Fuel Tank-1
	(Include photograph of CERTIFICATION PLACARD in case report) (9) Unknown if vehicle is modified	_	38. Type of Fuel Tank-2 (0) No fuel tank (electrical vehicle) (1) Metallic (2) Non-metallic (9) Unknown
	FIRE OCCURRENCE		39. Location of Fuel Tank-1
	Fire Occurrence (0) No fire Yes, fire occurred (1) Minor (2) Major (9) Unknown	φ	40. Location of Fuel Tank-2 (0) No fuel tank (1) Aft of center of the rear wheels (rear axle) centered (2) Aft of center of the rear wheels (rear axle) left side (3) Aft of center of the rear wheels (rear axle) right side (4) Forward of center of the rear wheels (rear axle) centered (5) Forward of center of the rear wheels (rear axle)
34.	Ongin of Fire (0) No fire (1) Vehicle exterior (front, side, back, top) (2) Exhaust system (3) Fuel tank (and other fuel retention system parts) (4) Engine compartment (5) Cargo/trunk compartment (6) Instrument panel (7) Passenger compartment area (8) Other location (specify): (9) Unknown	Φ	left side (6) Forward of center of the rear wheels (rear axle) right side (7) Over center of the rear wheels (rear axle) (8) Other (specify): (9) Unknown 41. Damage to Fuel Tank-1 42. Damage to Fuel Tank-2 (0) No fuel tank (1) No damage to fuel tank (2) Deformed, no seam failure (3) Deformed, with a seam failure (4) Punctured (5) Lacerated (ripped) (6) Abraded (scraped) (7) Filler neck separation from the fuel tank (8) Other damage (specify): (9) Unknown

					- uge (
43 .	Leakage Location of Fuel System-1		47. Is Th	nis Vehicle Equipped With More Than	φ
44.	Leakage Location of Fuel System-2 (0) No fuel tank		1	Fuel Tanks? No (one or two tanks only)	
	(1) No fuel leakage		Yes	- More Than Two Tanks	
	Daire - A OCL 4		(1)	Yes no damage to any tank or filler	
	Primary Area Of Leakage (2) Tank			cap and <u>no fuel system leakage</u>	
	(2) Tank (3) Filler neck		(2)	Yes - no damage to any tank or filler	
	(4) Cap			cap but there is fuel system leakage	
	(5) Lines/pump/filter			(specify leakage location):	
	(6) Vent/emission recovery		(3)	Yes damage to an additional tank or	
	(8) Other (specify):		(6)	filler cap and there is fuel system leakage	
	(9) Unknown			(specify the following):	•
			}	Type of tank	
		4 .		I ank location	
45 .	Fuel Type-1	<u> </u>		i iliel cap location	
40	Evil T	4 6		Tank damage	
40.	Fuel Type-2	Φ Φ		Location of leakage	
	Single Fuel Type		(0)	Type of fuel Unknown if more than two tanks	
	Single Fuel Type (00) No fuel tank		(9)	Unknown if more than two tanks	
	(01) Gasoline		l		
	(02) Diesel				
	(03) CNG (Compressed Natural Gas)			COMMENTS	
	(04) LPG (Liquid Petroleum Gas) also			33MM21113	
	known as Propane				
	(05) LNG (Liquid Natural Gas)				
	(06) Methanol (M100 or M85)				
	(07) Ethanol (E100 or E85)				
	(08) Other (Hydrogen or others) (specify):		···	· · · · · · · · · · · · · · · · · · ·	
	Electric Powered or Electric/Solar				
	Powered Vehicles				
	(10) Lead Acid Battery				
	(11) Nickel-Iron Battery				
	(12) Nickel-Cadmium Battery				
1	13) Sodium Metal Chloride Battery				
	14) Sodium Sulfur Battery				
	(18) Other (Specify):				
•	98) Other Hybrid (specify):				
(99) Unknown fuel type	····			
				•	

*** STOP: IF THE CDS APPLICABLE VEHICLE WAS NOT TOWED ***

(GV10=0)

DO NOT COMPLETE THE INTERIOR VEHICLE FORM.

1. Primary Sampling Unit Number		
2. Case Number - Stratum	AB	12
3. Vehicle Number		41

INTEGRITY

4. Passenger Compartment Integrity (00) No integrity loss

Yes, Integrity Was Lost Through

- (01) Windshield
- (02) Door (side)
- (03) Door/hatch (back door)
- (04) Roof
- (05) Roof glass
- (06) Side window
- (07) Rear window (backlight)
- (08) Roof and roof glass
- (09) Windshield and door (side)
- (10) Windshield and roof
- (11) Side and rear window (side window and backlight)
- (12) Windshield and side window
- (13) Door and side window
- (98) Other combination of above (specify):
- (99) Unknown

Door, Tailgate or Hatch Opening

- 5. LF <u>/</u> 6. RF <u>/</u> 7. LR <u>/</u> 8. RR <u>/</u> 9. TG/H Ψ
 - (0) No door/gate/hatch
 - (1) Door/gate/hatch remained closed and operational
 - (2) Door/gate/hatch came open during collision
 - (3) Door/gate/hatch jammed shut
 - (8) Other (specify):
 - (9) Unknown

Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø

10. LF <u>Φ</u> 11. RF <u>Φ</u> 12. LR <u>Φ</u> 13. RR <u>Φ</u> 14. TG/H <u>Φ</u>

(0) No door/gate/hatch or door not opened

Door, Tailgate or Hatch Came Open During Collision

- (1) Door operational (no damage)
- (2) Latch/striker failure due to damage
- (3) Hinge failure due to damage
- (4) Door structure failure due to damage
- (5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage
- (6) Latch/striker and hinge failure due to damage
- (8) Other failure (specify):
- (9) Unknown

GLAZING

Type of Window/Windshield Glazing

15. WS 16. LF 4 17. RF 4 18. LR 4 19. RR 4

20. BL 4 21. Roof ♥ 22. Other 4

- (O) No glazing
- (1) AS-1 Laminated
- (2) AS-2 Tempered(3) AS-3 Tempered-tinted (original)
- (4) AS-2 Tempered-with after market tint
- (5) AS-3 Tempered-tinted (with additional after market tint)
- (6) AS-14 Glass/Plastic
- (7) Glazing removed prior to accident
- (8) Other (specify):
- (9) Unknown

Window Precrash Glazing Status

23. WS / 24. LF 2 25. RF Z 26. LR Z 27. RR Z

28. BL / 29. Roof Ø 30. Other /

- (O) No glazing
- (1) Fixed
- (2) Closed
- (3) Partially opened
- (4) Fully opened
- (7) Glazing removed prior to accident
- (9) Unknown

Glazing Damage from Impact Forces

31. WS ² 32. LF / 33. RF / 34. LR / 35. RR /

36. BL / 37. Roof 438. Other /

- (O) No glazing
- (1) No glazing damage from impact forces
- (2) Glazing in place and cracked from impact forces
- (3) Glazing in place and holed from impact forces
- (4) Glazing out-of-place (cracked or not) and not holed from impact forces
- (5) Glazing out-of-place and holed from impact forces
- (6) Glazing disintegrated from impact forces
- (7) Glazing removed prior to accident
- (9) Unknown if damaged

Glazing Damage from Occupant Contact

39. WS 3 40. LF / 41. RF / 42. LR / 43. RR /

44. BL___ 45. Roof \$\Phi\$ 46. Other \$\right\$

- (0) No glazing
- (1) No occupant contact to glazing
- (2) Glazing contacted by occupant but no glazing damage
- (3) Glazing in place and cracked by occupant contact
- (4) Glazing in place and holed by occupant contact
- (5) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact
- (6) Glazing out-of-place by occupant contact and holed by occupant contact
- (7) Glazing removed prior to accident
- (8) Glazing disintegrated by occupant contact
- (9) Unknown if contacted by occupant

INTRUSION WORKSHEET NOTE: SKETCH INTRUDED AREAS Vertical Longitudinal Row Width (cm) Longitudinal **LOCATION** (All Measurements Are In Centimeters) **DOMINANT** OF **INTRUDED COMPARISON INTRUDED INTRUSION CRUSH INTRUSION COMPONENT VALUE VALUE DIRECTION** =

National Accident Sampling System-Crashworthiness Data System: Interior Vehicle Form OCCUPANT AREA INTRUSION Note: If no intrusions, leave variables IV47-IV86 blank. INTRUDING COMPONENT **Dominant** Interior Components Location of Intruding Magnitude Crush (01) Steering assembly Intrusion Component of Intrusion Direction (02) Instrument panel left (03) Instrument panel center (04) Instrument panel right 1st 47.___ 48. 49. (05) Toe pan 50. (06) A (A1/A2)-pillar (07) B-pillar (08) C-pillar 52. 54. (09) D-pillar (10) Side panel - forward of the A1/A2-pillar (11) Door panel (side) (12) Side panel - rear of the B-pillar 56. **57**. 58. (13) Roof (or convertible top) (14) Roof side rail (15) Windshield (16) Windshield header 59. 60. 4th 62. (17) Window frame (18) Floor pan (includes sill) (19) Backlight header (20) Front seat back 6**/**4 5th 63. 65. 66. (21) Second seat back (22) Third seat back (23) Fourth seat back (24) Fifth seat back 68.____ 69. 70. (25) Seat cushion (26) Back door/panel (e.g., tailgate) (27) Other interior component (specify): 72. __ 74. 71. 73. **Exterior Components** (30) Hood **75**. 76. (31) Outside surface of this vehicle (specify): 8th 77.___ 78.___ (32) Other exterior object in the environment (specify): 80. 9th 81. (33) Unknown exterior object (97) Catastrophic (98) Intrusion of unlisted component(s) (specify):

LOCATION OF INTRUSION

(31) Left

(32) Middle

(33) Right

ront Seat	Fourth	Seat
(11) Left	(41)	Left
(12) Middle		Middle
(13) Right	(43)	Right
Second Seat	(97)	Catastrophic
(21) Left		Other enclosed
(22) Middle (23) Right		area (specify)
	(99)	Unknown
hird Seat	••	

84. 85. 86.

MAGNITUDE OF INTRUSION

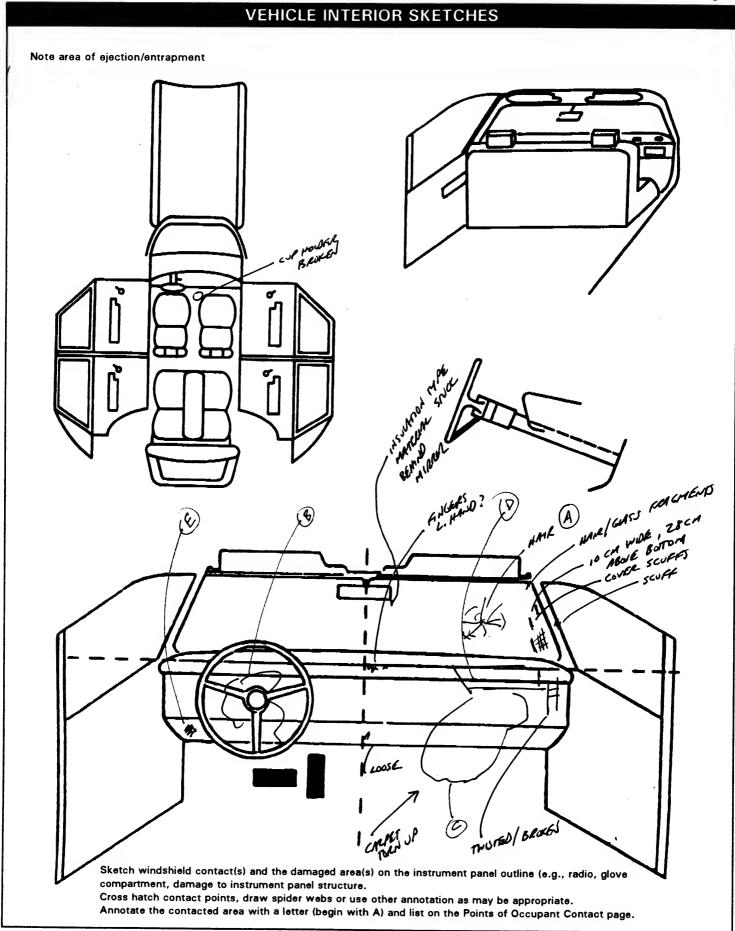
(99) Unknown

- (1) ≥ 3 centimeters but < 8 centimeters (2) ≥ 8 centimeters but < 15 centimeters
- (3) ≥ 15 centimeters but < 30 centimeters
- (4) ≥ 30 centimeters but < 46 centimeters
- (5) ≥ 46 centimeters but < 61 centimeters
- (6) ≥ 61 centimeters
- (7) Catastrophic
- (9) Unknown

DOMINANT CRUSH DIRECTION

- (1) Vertical
- (2) Longitudinal
- (3) Lateral
- (7) Catastrophic
- (9) Unknown

	G RIM/SPOKE DEFO		***************************************
COMPARISON VALUE	 DAMAGE VALUE	=	DEFORMATION
	 DAIMAGE VALUE	=	DEI ORIVIA HOR
	 	=	
		=	



MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

If a child safety seat is present, encode the data on the back of this page 11.

If the vehicle has automatic restraints available, encode the appropriate data on page 6.

		Left	Center	Right
	A-Availability	4		4
F	B-Evidence of usage	4 4		64
l I R	C-Used in this crash?	YES / DRIP BITERY		· YES/LOGANG/INJ.
S	D-Proper Use	/	/	\$
Τ	E-Failure Modes	/		φ
	F-Anchorage Adjustment	3	7	3- 1 aick MIGHERTHAN
	A-Availability	4	3	4
s	B-Evidence of usage	04	43	44
SECOZD	C-Used in this crash?	No	No	YES
ŏ	D-Proper Use	φ	φ	1
N	E-Failure Modes	4	9	/
	F-Anchorage Adjustment	1	Ø	/
	A-Availability			
0	B-Evidence of usage			
T	C-Used in this crash?			
H	D-Proper Use			
E R	E-Failure Modes			
	F-Anchorage Adjustment			

A-Manual (Active) Belt System Availability

- (0) None available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available type unknown

Integral Belt Partially Destroyed

- (6) Shoulder belt (lap belt destroyed/removed)
- (7) Lap belt (shoulder belt destroyed/removed)
- (8) Other belt (specify):
- (9) Unknown

B/C-Manual (Active) Belt System Use

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperable (specify):
- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used type unknown
- (08) Other belt used (specify):
- (12) Shoulder belt used with child safety seat
- (13) Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat type unknown
- (18) Other belt used with child safety seat (specify):
- (99) Unknown if belt used

D-Proper Use of Manual (Active) Belts

- (0) None used or not available
- (1) Belt used properly
- (2) Belt used properly with child safety seat

Belt Used Improperly

- (3) Shoulder belt worn under arm
- (4) Shoulder belt worn behind back or seat
- (5) Belt worn around more than one person
- (6) Lap belt worn on abdomen
- (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):
- (8) Other improper use of manual belt system (specify):
- (9) Unknown

E-Manual (Active) Belt Failure Modes During Accident

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other manual belt failure (specify):
- (9) Unknown

F-Shoulder Belt Upper Anchorage Adjustment

- (0) No shoulder belt
- (1) No upper anchorage adjustment for shoulder belt

Adjustable shoulder Belt Upper Anchorage

- (2) In full up position
- (3) In mid position
- (4) In full down position
- (5) Position unknown
- (9) Unknown if position has adjustable upper anchorage adjustment

AUTOMATIC RESTRAINTS

NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

AIR BAGS

		Frontal Air BagsLeft Front	Frontal Air Bags-Right Front	OtherAir Bag
F	Availability/Function	/	/	/
Ř	Deployment	/	/	
5 T	Failure	/	/	

Air Bag System Availability/Function

- (0) Not equipped/not available
- (1) Air bag

Non-functional

- (2) Air bag disconnected (specify):
- (3) Air bag not reinstalled
- (9) Unknown

Air Bag System Deployment (This Occupant Position)

- (0) Not equipped/not available
- Deployed during accident (as a result of impact)
- (2) Deployed inadvertently just prior to accident
- (3) Deployed, accident sequence undetermined
- (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- (5) Unknown if deployed
- (7) Nondeployed
- (9) Unknown

Are There indications of Air Bag System Fallure? (This Occupant Position)

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (9) Unknown

AUTOMATIC BELTS

		Left	Right
	A-Availability/Function		/
F	B-Use		
R	С-Туре		
S	D-Proper Use	1	
	E-Failure Modes		

A-Automatic (Passive) Belt System Availability/Function

- (0) Not equipped/not available
- (1) 2 point automatic belts
- (2) 3 point automatic belts
- (3) Automatic belts type unknown

Non-functional

- (4) Automatic belts destroyed or rendered inoperative
- (9) Unknown

B-Automatic (Passive) Belt System Use

- (0) Not equipped/not available/destroyed or rendered inoperative
- (1) Automatic belt in use
- Automatic belt not in use (manually disconnected, motorized track inoperative)
- (3) Automatic belt use unknown
- (9) Unknown

C-Automatic (Passive) Belt System Type

- (0) Not equipped/not available
- (1) Non-motorized system
- (2) Motorized system
- (9) Unknown

D-Proper Use of Automatic (Passive) Belt System

- (0) Not equipped/not available/not used
- (1) Automatic belt used properly
- (2) Automatic belt used properly with child safety seat

Automatic Belt Used Improperly

- (3) Automatic shoulder belt worn under arm
- (4) Automatic shoulder belt worn behind back
- (5) Automatic belt worn around more than one person
- (6) Lap portion of automatic belt worn on abdomen
- (7) Automatic lap and shoulder belt or

automatic shoulder belt used improperly with child safety seat (specify):

- (8) Other improper use of automatic belt system (specify):
- (9) Unknown

E-Automatic (Passive) Belt Failure Modes During Accident

- (0) Not equipped/not available/not in use
- (1) No automatic belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other automatic belt failure (specify):
- (9) Unknown

FIRST SEAT FRONTAL AIR BAGS

NOTES: Encode the applicable data *for the driver and first seat passenger* in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

	Driver	Passenger
A-Type of air bag?	/	
B-Flaps open at tear points?	2	2
C-Flaps damaged?		2
D-Air bag damaged?	Ø 1	6/
E-Source of air bag damage	0/	& /
F-Air bag tethered?		/
G-Air bag have vent ports?	2, 2	2, 2
H-Other occupant contact air bag?	1	2
I-Occupant wearing eyewear?	4	4

A-Type of Air Bag

- (0) Not equipped/not available
- (1) Original manufacturer installed system
- (2) Retrofitted air bag
- (3) Replacement air bag
- (8) Unknown type of air bag
- (9) Unknown

B-Did Air Bag Module Cover Flap(s) Open At Designated Tear Points?

- (0) Not equipped/not available
- (1) No
- (2) Yes
- (3) Deployed, unknown if flap(s) opened at designated tear points
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

C-Were Air Bag Module Cover Flap(s) Damaged?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if air bag module cover flap(s) damaged
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

D-Was There Damage To The Air Bag?

- (00) Not equipped/not available
- (01) Not damaged

Yes - Air Bag Damage

- (02) Ruptured
- (03) Cut
- (04) Torn
- (05) Holed (06) Burned
- (07) Abraded
- (88) Other damage (specify):
- (95) Damaged, details unknown
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

E-Source of Air Bag Damage

- (00) Not equipped/not available
- (01) Not damaged
- (02) Object worn by occupant, (specify):
- (03) Object carried by occupant, (specify):
- (04) Adaptive/assistive controls, (specify):
- (05) Fire in vehicle
- (06) Thermal burns
- (07) Rescue or emergency efforts
- (88) Other damage source (specify):
- (95) Damaged, unknown source
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

F-Was The Air Bag Tethered?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of tether straps):
- (3) Deployed, unknown if tethered
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

G-Did The Air Bag Have Vent Ports?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of vent ports):
- (3) Deployed, unknown if vent ports present
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

H-Was the Air Bag in this Occupant's Position Contacted by Another Occupant?

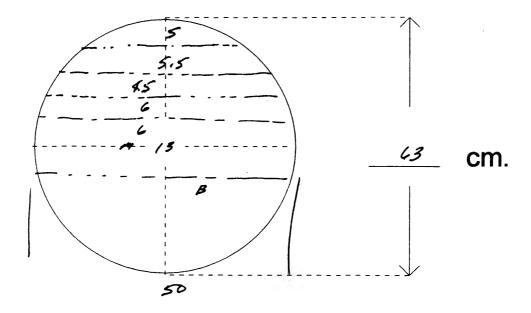
- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if other occupant contact to air bag
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

I-Was This Occupant Wearing Eye-wear?

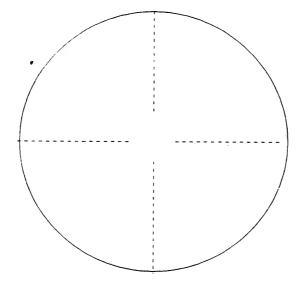
- (0) Not equipped/not available
- (1) No
- (2) Eyegiasses/sunglasses
- (3) Contact lenses
- (4) Deployed, unknown if eyewear worn
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

DRIVER AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Front)



2. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Back)

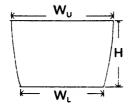


DRIVER AIR BAG SKETCHES (Cont'd)

3. DRIVER AIR BAG MODULE COVER FLAP SIZE (SINGLE)

width (W_U) _____ width (W_L) _____

height (H)



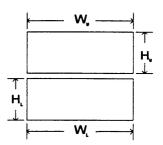
4. DRIVER AIR BAG MODULE COVER FLAP SIZE (DOUBLE)

a. Upper Flap

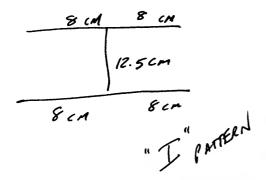
b. Lower Flap

width (W_U) _____ width (W_L) _____

height (H_U) _____ height (H_L) _____

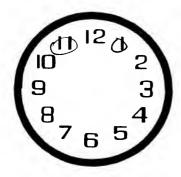


5. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP **AND SIZE**



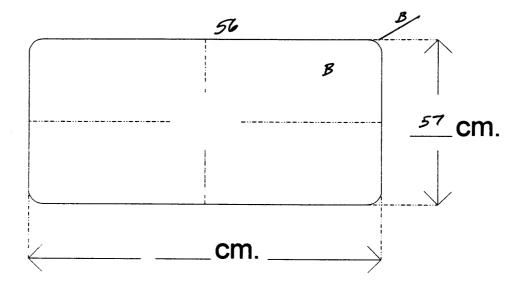
6. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS

7. SKETCH LOCATION OF CIRCULAR AIR BAG VENT **PORTS**

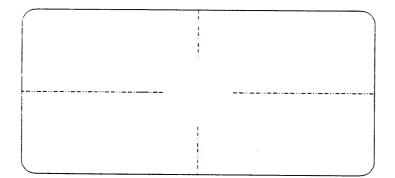


PASSENGER AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Front)

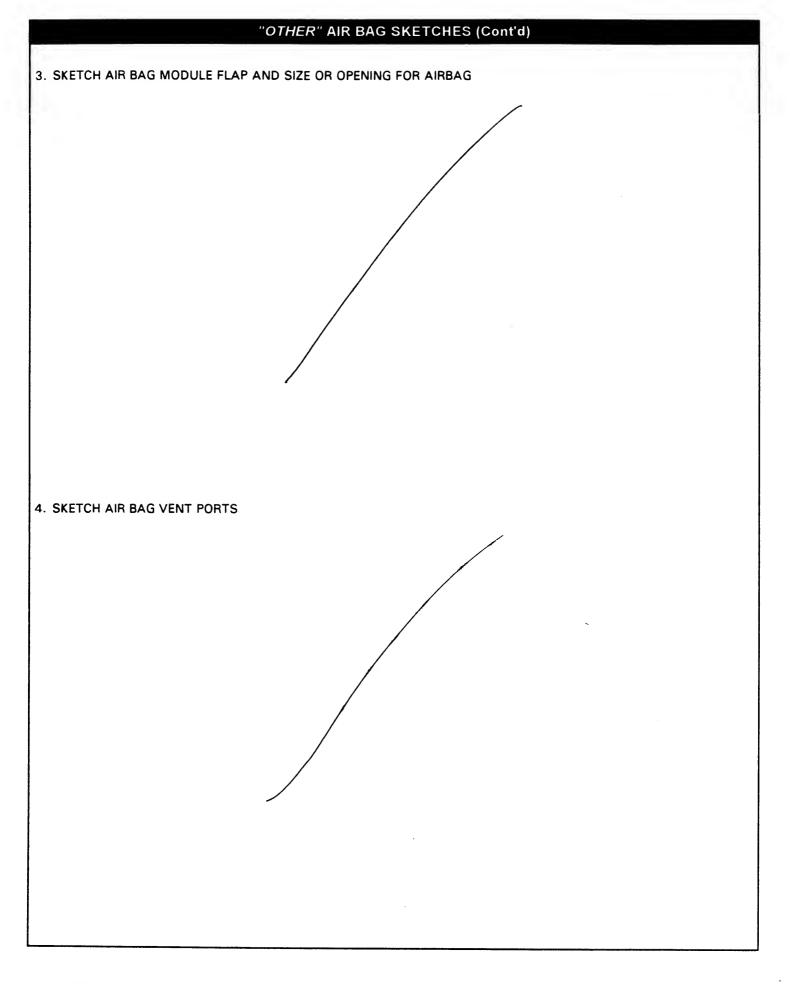


2. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Back)



PASSENGER AIR BAG SKETCHES (Cont'd) 3. PASSENGER AIR BAG MODULE COVER FLAP SIZE 4. PASSENGER AIR BAG MODULE COVER FLAP SIZE (DOUBLE) (SINGLE) a. Upper Flap b. Lower Flap width (W) width (W_U) _____ width (W_L) _____ height (H) height (H_U) _____ height (H_L) _____ - W. -H H, --- W ---5. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP 6. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS AND SIZE 54 cm 24 cm 31 cm Oil transfer SRS Glass slivers 37 cm Skin transfer

"OTHER" AIR BAG DAMAGE AND CONTACT SKETCHES 1. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Front) 2. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Back)



HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found on the next page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
F I R S T	A-Head Restraint Type/Damage	3	/	3
	B-Seat Type	ΦI		DY.
	C-Seat Orientation	2		6
	D-Seat Track Position	2		6
	E-Seat Back Incline Pre/Post Impact	14		14
	F-Seat Performance	1		1
SECON	A-Head Restraint Type/Damage	Ø	Ø	Ø
	B-Seat Type	<i>φ</i> 3	Φ3	φ3
	C-Seat Orientation	1	1	1
	D-Seat Track Position	/	1	1
	E-Seat Back Incline Pre/Post Impact	ø /	ø /	0/
	F-Seat Performance	1	1	1
T H R D	A-Head Restraint Type/Damage			
	B-Seat Type			
	C-Seat Orientation			
	D-Seat Track Position			
	E-Seat Back Incline Pre/Post Impact			
	F-Seat Performance			
0 T H E R	A-Head Restraint Type/Damage			/
	B-Seat Type			
	C-Seat Orientation			
	D-Seat Track Position			
	E-Seat Back Incline Pre/Post Impact			
	F-Seat Performance			

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE
(I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

HEAD RESTRAINTS/SEAT EVALUATION

A-Head Restraint Type/Damage by E-Seat Back Incline Prior and Post Occupant at This Occupant Position Impact (0) No head restraints (00) Occupant not seated or no seat (1) Integral — no damage(2) Integral — damaged during (01) Not adjustable Upright prior to impact accident (11) Moved to completely rearward Adjustable – no damage 14 13 15 position (4) Adjustable - damaged during (12) Moved to rearward midrange 16 12 accident position (5) Add-on - no damage (13)Moved to slightly rearward Add-on — damaged during position accident (14)Retained pre-impact position (8)Other (15)Moved to slightly forward position Specify): (16)Moved to forward midrange (9) Unknown position (17)Moved to completely forward position **B-Seat Type (this Occupant Position)** Slightly reclined prior to impact (00) Occupant not seated or no (21) Moved to completely rearward 25 24 seat 23 position (01)**Bucket** 26 (22)Moved to rearward midrange (02)Bucket with folding back position (03) Bench 27 (23)Retained pre-impact postion (04) Bench with separate back (24)Moved to upright position cushions Moved to slightly forward position (25)(05) Bench with folding back(s) (26)Moved to forward midrange (06) Split bench with separate back position cushions (27)Moved to completely forward (07)Split bench with folding position back(s) (08) Pedestal (i.e., column Completely reclined prior to impact supported) Retained pre-impact position (31)(09) Box mounted seat (i.e., van (32)Moved to rearward midrange type) position (10) Other seat type (specify): 35 34 33 (33)Moved to slightly rearward 36 32 position (99) Unknown (34)Moved to upright position (35)Moved to slightly forward position 37 (36)Moved to forward midrange position C-Seat Orientation (this Occupant (37)Moved to completely forward Position) position (0)Occupant not seated or no seat (99) Unknown Forward facing seat (2)Rear facing seat (3)Side facing seat (inward) (4)Side facing seat (outward) F-Seat Performance (this Occupant (8)Other (specify): Position) (0)Occupant not seated or no seat (9) Unknown (1) No seat performance failure(s) (2)Seat adjusters failed (3) Seat back folding locks or "seat back" failed (specify): **D-Seat Track Adjusted Position Prior**

To Impact

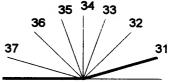
- (0)Occupant not seated or no seat
- (1) Non-adjustable seat track

Adjustable Seat Track

- (2)Seat at forward most track position
- Seat between forward most (3) and middle track positions
- (4)Seat at middle track position
- (5)Seat between middle and rear most track positions
- (6)Seat at rear most track position
- (9)Unknown

- (4)Seat tracks/anchors failed
- (5)Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):
- (7)Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

22 21



Coding diagrams for Seat Back Incline Position Prior and Post Impact

When a chi the occupa	ld safety seat is pr nt's number using	esent enter th the codes liste	e occupant's i d below. Con	num nplet	ber in th	e first row and mn for each o	d complete the	e column below at present.
Occupant N	Number							
1. Type of Safety								
2. Child Sa Orienta					/			
3. Child Sa Harness								
4. Child Sa	afety Seat							
5. Child Sa Tether	afety Seat							
6. Child Sa Make/M	afety Seat	/	/					
1 Type of	Child Safety Seat	Specify I	Below for Each	Ch	ild Safet	y Seat		
(0) No (1) Infa (2) Tod (3) Con (4) Boo (7) Oth (8) Unk (9) Unk (9) Unk (9) Unk (9) Unk (11) Re (12) Fo (18) Ot (19) Unknow Age/Wei	child safety seat ant seat deler seat deler seat exertible seat ster seat er type child safety mown child safety mown if child safety seat of child safety seat defer sear facing fe/Weight ear facing mand facing ther orientation (spenknown orientation defer forward facing	seat type y seat used on or ecify): ecify):): -	5.	Child S Child S Note: C (00) N Not Des (01) A (02) A (03) C (09) U ac (11) H (12) H (19) U Unknov (21) H (22) H (29) U (99) U Child Sa	signed with H fter market h dded, not use fter market h hild safety se arness/shield/ nknown if ha dded or used With Harne arness/shield/ arness/shield/ nknown if har vn If Designed arness/shield/ nknown if har nknown if har nknown if chil afety Seat Ma	sield Usage ther Usage Are Used for seat sarness/Shield/sarness/shield/sat used, but n tether added rness/shield/tether not use stether used stether not use tether not use tether not use tether sed stether sed	tether used o after market other wher ed where where ed where where ed where where ed where wher
(22) Foi	rward facing her orientation (spe	cify):						
(29) Un	known orientation					*		1511
(99) Un	known if child safe	ty seat used						

CHILD SAFETY SEAT FIELD ASSESSMENT

		TRA		

omplete the following if the researcher has any indication that an occupant was either ejected from or entrapped in eventual eventual control of the appropriate data on the Occupant Assessment Form. EJECTION No [1] Yes [] Describe indications of ejection and body parts involved in partial ejection(s):						
Occupant Number						
Ejection (Note on Vehicle Interior Sketch) Ejection Area						
Ejection Medium						
Medium Status						
Ejection (1) Complete ejection (2) Partial ejection (3) Ejection, Unknown degree (9) Unknown	(7) Roof (8) Other area (e.g., back of pickup, etc.) (specify):	(5) Integral structure (8) Other medium (specify): (9) Unknown				
Ejection Area (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear	Ejection Medium (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):	Medium Status (Immediately Prior to Impact) (1) Open (2) Closed (3) Integral structure (9) Unknown				
ENTRAPMENT No [\inf Yes [Describe entrapment mechanism:]					
Component(s):						
(Note on vehicle interior sketch)						

U.S. Department of Transportation OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM
OCCUPANT'S SEATING
10. Occupant's Seat Position / /
Front Seat (11) Left side
(12) Middle (13) Right side
(14) Other (specify):(15) On or in the lap of another occupant
Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant
Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle
(43) Right side (44) Other (specify): (45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown

E	JECTION/E	NTRAPMENT
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown		15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown 14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown	φ	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or disoriented (2) Removed from vehicle due to injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (9) Unknown

DELT SYSTEM FUNCTION

		DEET STOTE	EWIFUNCTION
18	3. Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt	4	22. Shoulder Belt Upper Anchorage Adjustment (0) No shoulder belt (1) No upper anchorage adjustment for shoulder belt
	 (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown 		Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position
	Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/re (7) Lap belt (shoulder belt destroyed/re (8) Other belt (specify):	moved) emoved)	(5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment
	(9) Unknown		23. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available
19.	 Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): 	<u> </u>	(1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional
	(02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt	····	(4) Automatic belts destroyed or rendered inoperative (9) Unknown
	(05) Belt used—type unknown (08) Other belt used (specify):		24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use
	 (12) Shoulder belt used with child safety (13) Lap belt used with child safety seal (14) Lap and shoulder belt used with child safety seat (15) 	ild	(2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown
	(15) Belt used with child safety seat—ty (18) Other belt used with child safety se (specify):	pe unknown at 	(9) Unknown 25. Automatic (Passive) Belt System Type
20.	(99) Unknown if belt used Proper Use of Manual (Active) Belts (0) None used or not available		(0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown
	(1) Belt used properly(2) Belt used properly with child safety s	eat	26. Proper Use of Automatic (Passive) Belt System (0) Not equipped for available fact used
	Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or so (5) Belt worn around more than one per	eat son	 (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat
	 (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt use improperly with child safety seat (specific property) 	d ecify):	Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than
	(8) Other improper use of manual belt sy (specify):	/stem	one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or
	(9) Unknown Manual (Active) Belt Failure Modes	/	automatic shoulder belt used improperly with child safety seat (specify):
	During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing no included)	ľ	(8) Other improper use of automatic belt system (specify):(9) Unknown
	 (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify) 		27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use
	(6) Broken retractor (7) Combination of above (specify):		 (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated
	(8) Other manual belt failure (specify):		(5) Other anchorage separated (specify):
((9) Unknown		 (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify):
			(9) Unknown

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use. [] Not equipped/not available/destroyed or rendered inoperative [] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify):	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:
	 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown

	FIRST SEAT FRONTAL AIR	BAG SYSTEM EVALUATION
35.	Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (-000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (-996) Deployment, unknown longitudinal Delta V (-997) Not deployed (-998) Unknown if deployed (-999) Unknown
36.	Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed (9) Unknown
	Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown	42. Were Air Bag Module Cover Flap(s) Damaged? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed (8) Unknown if deployed
	Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown CDC For Air Bag Deployment Impact (10) Not equipped/not available (11) Highest delta V (22) Second highest delta V (23) Other non-coded delta V (specify): (15) Deployed, unknown event (17) Not deployed (18) Unknown if deployed (19) Unknown	(9) Unknown 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn (05) Holed (06) Burned (07) Abraded (08) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

FIRST SEAT FRONTAL AIR BAG SYSTE EVALUATION continued	HEAD RESTRAINT AND SEAT EVALUATION
	49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify):
(95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown 45. Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps): (3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown 46. Did The Air Bag Have Vent Ports? (0) Not equipped/not available	50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify): (99) Unknown 51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat
 (1) No (2) Yes (specify number of vent ports): (3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed (9) Unknown 47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if other occupant contacted 	(9) Unknown 52. Seat Track Adjusted Position Prior To Impact (0) Occupant not seated or no seat (1) Non-adjustable seat track Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions (4) Seat at middle track position
air bag (7) Not deployed (8) Unknown if deployed (9) Unknown 48. Was This Occupant Wearing Eye-wear? (0) Not equipped/not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown	(5) Seat between middle and rear most track positions (6) Seat at rear most track position (9) Unknown

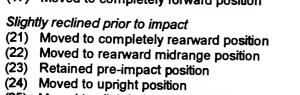
HEAD RESTRAINT AND SEAT EVALUATION continued

HEAD RESTRAINT AND S

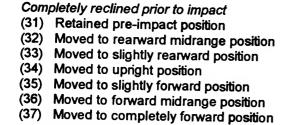
53. Seat Back Incline Prior and Post Impact
(00) Occupant not seated or no seat
(01) Not adjustable

Upright prior to impact
(11) Moved to completely rearward position
(12) Moved to rearward midrange position
(13) Moved to slightly rearward position
(14) Retained pre-impact position
(15) Moved to slightly forward position
(16) Moved to forward midrange position

(13) Moved to slightly rearward position (14) Retained pre-impact position (15) Moved to slightly forward position (16) Moved to forward midrange position (17) Moved to completely forward position

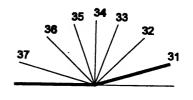






(99) Unknown

(9) Unknown



(0)	Occupant not seated or no seat
(1)	No seat performance failure(s)
(2)	Seat adjusters failed
	Seat back folding locks or "seat back" failed (specify):
(4)	Seat track/anchors failed
(5)	Deformed by impact of occupant
(6)	Deformed by passenger compartment intrusion (specify):
(7)	Combination of above (specify):
(8)	Other (specify):

54. Seat Performance (this Occupant Position)

	CH	HILD SA	FETY SEAT
55.	Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CD	ф ф s	58. Child Safety Seat Harness Usage φφ
	Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify):		59. Child Safety Seat Shield Usage Φ
	(998) Unknown make/model (999) Unknown if child safety seat used		60. Child Safety Seat Tether Usage Output Ou
56.	Type of Child Safety Seat	φ	Variables OA58-OA60. (00) No child safety seat
	 (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat - with shield (5) Booster seat - without shield (7) Other type child safety seat (specify): (8) Unknown child safety seat type 		Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used
5 7. ((9) Unknown if child safety seat used Child Safety Seat Orientation (00) No child safety seat	<u>Φ</u> <u>Φ</u>	Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used
(Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify):	•	Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used
((09) Unknown orientation		(99) Unknown if child safety seat used
(Designed For Forward Facing for This Age/We (11) Rear facing (12) Forward facing (18) Other orientation (specify): Unknown orientation	eight	
A	Inknown Design or Orientation For This Age/Weight, or Unknown Age/Weight		
	21) Rear facing 22) Forward facing		
(2	28) Other orientation (specify):		
(2	29) Unknown orientation		
(9	99) Unknown if child safety seat used		

61. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown 62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify): Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facility-unknown if treated (9) Unknown	φ	(00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown	φ_)
STOR	WO	PK HEDE	

VARIABLES 66-74

TO BE CODED BY THE ZONE CENTER

National Highway Traffic Safety Administration	GENERAL VE	EHICLE FORM NATIONAL ACCIDENT SAMP CRASHWORTHINESS I	LING	SYSTE
Primary Sampling Unit Number Case Number - Stratum Wehicle Number	4 B 1 Z	12. Speed Limit (000) No statutory limit Code posted or statutory speed limit in kmph (999) Unknown	7	
4. Vehicle Model Year Code the last two digits of the model (99) Unknown	87	 45 mph X 1.6093 = 47 Z kmph 13. Police Reported Alcohol Presence For Driver (0) No alcohol present (1) Yes alcohol present 	,	φ_
5. Vehicle Make (specify): FORD		(7) Not reported (8) No driver present (9) Unknown		
Applicable codes are found in you NASS Data Collection, Coding an Editing Manual. (99) Unknown 6. Vehicle Model (specify): TEMPO (ALL WHELL DEMA Applicable codes are found in you NASS Data Collection, Coding an Editing Manual. (999) Unknown	d / 5	14. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given (97) AC test performed, results unknown (98) No driver present (99) Unknown Source:	9	6
7. Body Type Note: Applicable codes may be for the back of this page. 8. Vehicle Identification Number		15. Police Reported Other Drug Presence For Driver (0) No other drug(s) present (1) Yes other drug(s) present (7) Not reported (8) No driver present	-	0_
/ F A B P 3 9 5 4 H / 1 2 3 4 5 6 7 8 9 10 1 Left justify; Slash zeros and letter No VIN—Code all Unknown—Code all nines	Z (Ø andZ) zeros	(9) Unknown 16. Other Drug Specimen Test Result For Driver (0) No specimen test given (1) Drug(s) not found in specimen (2) Drug(s) found in specimen, (specify):		<u>\$</u> _
9. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police (6) Ambulance (7) Fire truck or car (8) Other (specify): (9) Unknown	<u>φ</u>	(3) Specimen test given, results unknown obtained (8) No driver present (9) Unknown if specimen test given 17. Driver's Zip Code (00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code (99998) No driver present (99999) Unknown		or not
10. Police Reported Vehicle Dispositis (0) Not towed due to vehicle dam (1) Towed due to vehicle damage (9) Unknown 11. Police Reported Travel Speed Code to the nearest kmph (NOTE less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknownmph X 1.6093 =kmp	9 9 9 :: 000 means	18. Driver's Race/Ethnic Origin (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (7) Other (specify): (8) No driver present (9) Unknown		9

CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- 2-door sedan, hardtop, coupe (02)
- 3-door/2-door hatchback
- 4-door sedan, hardtop (04)
- 5-door/4-door hatchback (05)
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero. Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 4,500 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle. Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Passport, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Hummer, Landcruiser, Rover, Scout, Yukon)
- Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 4,500 kgs GVWR)

- Minivan (Town and Country, Caravan, Grand Caravan, (20) Voyager, Grand Voyager, Mini-Ram, Vista, Aerostar, Windstar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Expo Wagon, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- Step van or walk-in van (≤ 4,500 kgs GVWR) (22)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4,500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup style cab, ≤ 4,500 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Couner, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500, T100)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 4,500 kgs GVWR)

- (40) Čab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- Truck based panel (41)
- Light truck based motorhome (chassis mounted) (42)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- Unknown light vehicle type (automobile, utility, van, or light (49)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- Other bus type (e.g., transit, intercity, bus based (58)motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 4,500 kgs GVWR)

- Step van (> 4,500 kgs GWWR)
- Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs) (61)
- Single unit straight truck (8,850 kgs < GVWR ≤ 12,000 kgs) (62)
- Single unit straight truck (> 12,000 kgs (63)GWWR)
- Single unit straight truck, GVWR unknown
- Medium/heavy truck based motorhome (65)
- Truck-tractor with no cargo trailer (67)Truck-tractor pulling one trailer
- (68)Truck-tractor pulling two or more trailers
- (69) Truck-tractor (unknown if pulling trailer)
- (70)
- (78)Unknown medium/heavy truck type
- Unknown truck type (light/medium/heavy) (79)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- Motorcycle (80)
- Moped (motonzed bicycle) (81)
- Three-wheel motorcycle or moped (82)
- Other motored cycle (minibike, motorscooter) (88) (specify):
- Unknown motored cycle type (89)

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- Snowmobile (91)
- Farm equipment other than trucks (92)
- Construction equipment other than trucks (93)
- Other vehicle type (97)
- Unknown body type (99)

PRECRASH ENVIRONMENTAL DATA	25. Roadway Surface Condition
19 Relation To Interchange Or Junction 2	(1) Dry
15. Itelation to interestating of carrottes.	(2) Wet
(0) Non-interchange area and non-junction	(3) Snow or slush
(1) Interchange area related	(4) Ice
Non-Interchange junctions	(5) Sand, dirt, or oil
(2) Intersection related	(8) Other (specify):
(3) Driveway, alley access related	(9) Unknown
(4) Other junction (specify)	5
	26. Light Conditions
(5) Unknown type of junction	(1) Daylight
(O) Halmana	(2) Dark
(9) Unknown	(3) Dark, but lighted
	(4) Dawn (5) Dusk
20. Trafficway Flow ϕ	(9) Unknown
(0) Not physically divided (two way traffic)	(6) 6.111.116.11.1
(1) Divided trafficway-median strip without positive	_
barner	27. Atmospheric Conditions $\underline{\phi}$
(2) Divided trafficway-median strip with positive barrier	(0) No adverse atmospheric-related driving
(3) One way traffic	conditions
(9) Unknown	(1) Rain
	(2) Sleet/hail
21. Number Of Travel Lanes	(3) Snow (4) Fog
(1) One	(5) Rain and fog-
(2) Two	(6) Sleet and fog
(3) Three	(7) Other (e.g., smog, smoke, blowing sand or dust,
(4) Four (5) Five	etc.) (specify):
(6) Six	(9) Unknown
(7) Seven or more	28 Traffic Control Device
(9) Unknown	20. Hanic Control Bevice
,	(0) No traffic control(s) (1) Traffic control signal (not RR crossing)
22. Roadway Alignment	(1) Traile control signal (not fix clossing)
(1) Straight	Regulatory
(2) Curve right	(2) Stop sign
(3) Curve left	(3) Yield sign
(9) Unknown	(4) School zone sign
,	(5) Other regulatory sign (specify):
23. Roadway Profile	(C) Marsing sign (set DD erossics)
(1) Level	(6) Warning sign (not RR crossing) (7) Unknown sign
(2) Uphill grade (>2%)	(8) Miscellaneous/other controls including RR
(3) Hill crest	controls (specify):
(4) Downhill grade (>2%)	
(5) Sag	(9) Unknown
(9) Unknown	
2	A
24. Roadway Surface Type	29. Traffic Control Device Functioning
(1) Concrete	(0) No traffic control device (1) Traffic control device not functioning
(2) Bituminous (asphalt)	(1) Frame control device not functioning (specify)
(3) Brick or block (4) Slag, gravel, or stone	(specify)
(4) Slag, graver, or storie (5) Dirt	(2) Traffic control device functioning properly
(8) Other (specify):	(9) Unknown
(9) Unknown	
	i e

	PRECRASH DRIVER RELATED DATA	This Vehicle Traveling
30.	Driver's Distraction/Inattention To Driving (Prior To Recognition Of Critical Event) (00) No driver present (01) Attentive or not distracted (02) Looked but did not see	 (10) Over the lane line on left side of travel lane (11) Over the lane line on right side of travel lane (12) Off the edge of the road on the left side (13) Off the edge of the road on the right side (14) End departure
	Distractions (03) By other occupant(s), (specify):	(15) Turning left at intersection (16) Turning right at intersection (17) Crossing over (passing through) intersection
	(04) By moving object in vehicle (specify):	(18) This vehicle decelerating (19) Unknown travel direction
	(05) While talking or listening to cellular phone (specify location and type of phone):	Other Motor Vehicle In Lane (50) Other vehicle stopped
	(06) While dialing cellular phone (specify location and type of phone):	(51) Traveling in same direction with lower steady speed (52) Traveling in same direction while decelerating
	(07) While adjusting climate controls (08) While adjusting radio, cassette, CD (specify):	(53) Traveling in same direction with higher speed(54) Traveling in opposite direction(55) In crossover(56) Backing
	(09) While using other device/object in vehicle (specify):	(59) Unknown travel direction of other motor vehicle in lane
	(10) Sleepy or fell asleep (11) Distracted by outside person, object, or event (specify):	Other Motor Vehicle Encroaching Into Lane (60) From adjacent lane (same direction)—over left lane line
	 (12) Eating or drinking (13) Smoking related (97) Distracted/inattentive, details unknown (98) Other, distraction (specify): 	 (61) From adjacent lane (same direction)—over right lane line (62) From opposite direction—over left lane line (63) From opposite direction—over right lane line
31.	(99) Unknown Pre-Event Movement (Prior to	 (64) From parking lane (65) From crossing street, turning into same direction (66) From crossing street, across path
	Recognition of Critical Event) (00) No driver present (01) Going straight (02) Decelerating in traffic lane (03) Accelerating in traffic lane (04) Starting in traffic lane (05) Stopped in traffic lane (06) Passing or overtaking another vehicle (07) Disabled or parked in travel lane (08) Leaving a parking position (09) Entering a parking position (10) Turning right (11) Turning left (12) Making a U-turn (13) Backing up (other than for parking position) (14) Negotiating a curve (15) Changing lanes (16) Merging (17) Successful avoidance maneuver to a previous critical event (97) Other (specify):	(67) From crossing street, turning into opposite direction (68) From crossing street, intended path not known (70) From driveway, turning into same direction (71) From driveway, across path (72) From driveway, turning into opposite direction (73) From driveway, intended path not known (74) From entrance to limited access highway (78) Encroachment by other vehicle—details unknown **Pedestrian, Pedalcyclist, or Other Nonmotorist* (80) Pedestrian in roadway (81) Pedestrian approaching roadway (82) Pedestrian—unknown location (83) Pedalcyclist or other nonmotorist in roadway (specify): (84) Pedalcyclist or other nonmotorist approaching roadway, (specify): (85) Pedalcyclist or other nonmotorist—unknown location (specify): **Object or Animal** (87) Animal in roadway (88) Animal approaching roadway
32.	This Vehicle Loss of Control Due To: (01) Blow out or flat tire (02) Stalled engine (03) Disabling vehicle failure (e.g., wheel fell off)	(89) Animal—unknown location (90) Object in roadway (91) Object approaching roadway (92) Object—unknown location (98) Other critical precrash event (specify):
	(specify):(04) Non-disabling vehicle problem (e.g., hood flew up) (specify):	(99) Unknown
	(05) Poor road conditions (puddle, pot hole, ice, etc.) (specify):	
	(06) Traveling too fast for conditions (08) Other cause of control loss (specify):	

(09) Unknown cause of control loss

33. Attempted Avoidance Maneuver (00) No driver present (01) No avoidance maneuver (02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes (06) Steering left (07) Steering nght (08) Braking and steering left (09) Braking and steering nght (10) Accelerating (11) Accelerating and steering left (12) Accelerating and steering right (98) Other action (specify):	35. Pre-Impact Location (0) No driver present (1) Stayed in original travel lane (2) Stayed on roadway but left original travel lane (3) Stayed on roadway, not known if left original travel lane (4) Departed roadway (5) Remained off roadway (6) Returned to roadway (7) Entered roadway (9) Unknown 36. Accident Type (Note: Applicable codes on back of this page) (00) No impact
34. Pre-Impact Stability (0) No driver present (1) Tracking (2) Skidding longitudinally—rotation less than 30 degrees (3) Skidding laterally—clockwise rotation (4) Skidding laterally—counterclockwise rotation (7) Other vehicle loss-of-control (specify): (9) Precrash stability unknown	Code the number of the diagram that best describes the accident circumstance (98) Other accident type (specify): (99) Unknown

STOP HERE IF GV07 DOES NOT EQUAL 01 - 49

OCCUPANT RELATED	44. Vehicle Cargo Weight 9, 9 9 0
37. Driver Presence in Vehicle	Code weight to nearest 10 kilograms.
(0) Driver not present	(000) Less than 5 kilograms
(1) Driver present (9) Unknown	(450) 4,500 kilograms or more (999) Unknown
	lbs X .4536 = kgs
38. Number of Occupants This Vehicle ϕ	Source:
(00-96) Code actual number of occupants for this vehicle	ROLLOVER DATA
(97) 97 or more	
(99) Unknown	45. Rollover Φ
39. Number of Occupant Forms Submitted ΦI	(00) No rollover (no overturning)
AIR BAG RELATED	Rollover (primarily about the longitudinal axis) (01-16) Code the number of quarter turns
40. Is this an AOPS Vehicle?	(17) Rollover, 17 or more quarter turns (specify):
40. Is this an AOPS Vehicle? (0) No (includes unknown)	(98) Rollover-end-over-end (i.e., primarily about
(1) Yes - researcher determined	the lateral axis)
(2) VIN determined air bag system (3) VIN determined automatic (passive) belts	(99) Rollover (overturn), details unknown
(4) VIN determined air bag and automatic (passive)	46. Rollover Initiation Type Φ
belts	(00) No rollover (01) Trip-over
41. Air Bag(s) Deployment, First Seat Frontal $\underline{\psi}$	(01) The over (02) Flip-over (03) Turn-over
(0) Not equipped or not available	(03) Turn-over
(1) No air bags deployed	(04) Climb-over (05) Fall-over
Single Air Bag Vehicle (2) Driver air bag deployed	(06) Bounce-over
(3) Driver air bag, unknown if deployed	(07) Collision with another vehicle (08) Other rollover initiation type specify):
Multiple Air Bag Vehicle	
(4) Driver side only deployed (5) Passenger side only deployed	(98) Rollover-end-over-end (99) Unknown rollover initiation type
(6) Driver and passenger side deployed	
(7) Driver and passenger side unknown if deployed	47. Location of Rollover Initiation <u>Φ</u> (0) No rollover
(8) Air bag(s) deployed, details unknown	(1) On roadway
(9) Unknown	(2) On shoulder—paved
42. Air Bag(s) Deployment, Other Than First $\underline{\Phi}$	(3) On shoulder—unpaved (4) On roadside or divided trafficway median
Seat	I (8) Rollover-end-over-end
Frontal (0) Not equipped with an "other" air bag	(9) Unknown
(1) Deployed during accident (as a result of impact)	48. Rollover Initiation Object Contacted $\underline{\varphi} \underline{\varphi}$
(2) Deployed inadvertently just prior to accident (3) Deployed, details unknown	(Note: Applicable codes on back of page)
(4) Deployed as a result of a noncollision event	49. Location on Vehicle Where Initial Principal
during accident sequence (e.g., fire, explosion, electrical)	Tripping Force Is Applied (0) No rollover
(5) Unknown if deployed	(1) Wheels/tires
(7) Nondeployed	(2) Side plane
(9) Unknown	(2) Side plane (3) End plane (4) Undercarnage
Specify type of "other" air bag present:	(5) Other location on vehicle (specify):
	(6) Non-contact rollover forces (specify):
	(8) Rollover-end-over-end
VEHICLE WEIGHT ITEMS	(9) Unknown
	50. Direction of Initial Roll
43. Vehicle Curb Weight <u>ℓ, φ </u> 9 α	(a))) · · · · · · · · · · · · · · · · ·
Code weight to nearest 10 kilograms.	(0) No rollover (1) Roll right - primarily about the longitudinal axis (2) Roll left - primarily about the longitudinal axis (8) Rollover-end-over-end (9) Unknown roll direction
(045) Less than 450 kilograms	(8) Rollover—end-over-end
(610) 6 100 kilograms or more	(9) Unknown roll direction
(999) Unknown lbs x .4536 = 1. Ø 8/8 kgs	
I and the second	
Source:	

CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) No rollover (01-30) — Vehicle Number	(57) Fence (58) Wall (59) Building
Noncollision (31) Turn-over — fall-over (32) No rollover impact initiation (end-over-end) (34) Jackknife	(60) Ditch or culvert (61) Ground (62) Fire hydrant (63) Curb (64) Bridge
Collision With Fixed Object (41) Tree (≤ 10 cm in diameter) (42) Tree (> 10 cm in diameter)	(68) Other fixed object (specify): (69) Unknown fixed object
(43) Shrubbery or bush (44) Embankment	Collision with Nonfixed Object (70) Passenger car, light truck, van, or other vehicl
(45) Breakaway pole or post (any diameter)	not in-transport (71) Medium/heavy truck or bus not in-transport (76) Animal
Nonbreakaway Pole or Post (50) Pole or post (≤ 10 cm in diameter) (51) Pole or post (> 10 cm but ≤ 30 cm in diameter) (52) Pole or post (> 30 cm in diameter) (53) Pole or post (diameter unknown)	(77) Train (78) Trailer, disconnected in transport (79) Object fell from vehicle in-transport (88) Other nonfixed object (specify):
(54) Concrete traffic barrier (55) Impact attenuator	(89) Unknown nonfixed object
(56) Other traffic barrier (includes guardrail) (specify):	(98) Other event (specify):
(specify).	(99) Unknown event or object

OVERRIDE/UNDERRIDE (THIS VEHICLE)	ACCIDENT RECONSTRUCTION PROGRAMS
51. Front Overnde/Undernde (this Vehicle) <u>Φ</u>	HIGHEST DELTA V
 52. Rear Override/Underride (this Vehicle) Φ (0) No override/underride, or not an end-to-end impact between two CDS applicable vehicles, and no medium/heavy truck or bus underride 	58. Basis for Total (Resultant) Delta V (highest) (00) No vehicle inspection
Override (see specific CDC) [Between 2 CDS applicable vehicles (Bodytype, GV07=1-49)] (1) 1st CDC (2) 2nd CDC (3) Other not automated CDC (specify): Underride (see specific CDC) [Between 2 CDS applicable vehicles (Bodytype, GV07=1-49)] (4) 1st CDC (5) 2nd CDC (6) Other not automated CDC (specify):	Delta V Calculated (01) Reconstruction program -damage only routine (02) Reconstruction program -damage and trajectory routine (03) Missing vehicle algorithm Delta V Not Calculated (04) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.
 (7) Medium/heavy truck or bus override (of any configuration) (9) Unknown HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V 	All vehicles within scope (CDC applicable) of reconstruction program but one of the collision conditions is beyond the scope of the reconstruction program or other acceptable reconstruction technique, regardless of adequacy of damage data.
Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown 53. Heading Angle For This Vehicle 2 9 Ф	(05) Rollover (06) Other non-horizontal forces (07) Sideswipe type damage (08) Severe override (09) Yielding object
54. Heading Angle For Other Vehicle // 8 9	(10) Overlapping damage (11) All vehicle and collision conditions are within
RECONSTRUCTION DATA	scope of one of the acceptable reconstruction
55.Towed Trailing Unit (0) No towed unit (1) Yes—towed trailing unit (9) Unknown	programs, but there is insufficient data available, ————————————————————————————————————
56. Documentation of Trajectory Data for This Vehicle (0) No (1) Yes	
 57. Post Collision Condition of Tree or Pole (For Highest Delta V) (0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted <45 degrees (4) Tilted ≥45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify): (9) Unknown 	

59. Total Delta V 4 3 3	63. Impact Speed 9 9 8
Nearest kmph (highest) Nearest kmph (secondary) (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown Highest 60. Longitudinal Component of +	Nearest kmph (highest) Nearest kmph (secondary) (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (998) Trajectory algorithm not run (999) Unknown
Nearest kmph (highest) Nearest kmph (secondary) (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (999) Unknown Highest 61. Lateral Component of Delta V \textit{\textit{\textit{\textit{P}}}} \textit{\textit{\textit{Q}}} \textit{\textit{\textit{Q}}} \textit{\textit{\textit{Q}}} \textit{\textit{\textit{Q}}}	64. Confidence In Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable OTHER SPEED ESTIMATE
Nearest kmph (secondary) (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (_999) Unknown 62. Energy Absorption \$\frac{\psi}{\psi} \phi_{\psi} \frac{\psi}{\psi} \frac	Highest 65. Barrier Equivalent Speed 31. V Nearest kmph (highest) Nearest kmph (secondary) (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown ABLE FOR THIS VEHICLE? [Y] YES [] NO

IF YES: IS A COMPLETED PROGRAM SUMMARY INCLUDED? [YES [] NO

ESTIMATED DELTA V	VEHICLE INSPECTION	
66. Estimated Highest Delta V (Researcher Determined) (0) Reconstruction Delta V coded Estimated Delta V (1) Less than 10 kmph (2) ≥ 10 kmph but < 25 kmph (3) ≥ 25 kmph but < 40 kmph (4) ≥ 40 kmph but < 55 kmph (5) ≥ 55 kmph Other estimates of damage severity (6) Minor (7) Moderate (8) Severe (9) Unknown	67. Type of Vehicle Inspection (0) No inspection (1) Vehicle fully repaired-no damage evident (2) Partial inspection (specify): (3) Complete inspection	

*** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV67=0), ***

DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE ***

THE EXTERIOR VEHICLE, INTERIOR VEHICLE,

OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

Primary Sampling Unit Number	OCCUPANT'S SEATING
	10. Occupant's Seat Position
2. Case Number - Stratum 4 B 12	— Front Seat
3. Vehicle Number 4 Z	(11) Left side (12) Middle
4. Occupant Number 9 /	(12) Middle (13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify):
OCCOPANT 3 CHARACTERISTICS	(15) On or in the lap of another occupant
5. Occupant's Age 47	Second Seat
Code actual age at time of accident. (00) Less than one year old (specify by month):	(21) Left side (22) Middle
(00) Less than one year old (specify by month).	(23) Right side
(97) 97 years and older	(24) Other (specify):
(99) Unknown	(25) On or in the lap of another occupant
	Third Seat
6. Ossurantia Sau	(31) Left side
6. Occupant's Sex (1) Male	(32) Middle (33) Right side
(2) Female-not reported pregnant	(34) Other (specify):
(3) Female-pregnant-1st trimester(1st-3rd month)	(35) On or in the lap of another occupant
(4) Female-pregnant-2nd trimester(4th-6th month(5) Female-pregnant-3rd trimester(7th-9th month)	
(6) Female-pregnant-term unknown	(41) Left side
(9) Unknown	(42) Middle
	(43) Right side (44) Other (specify):
	(45) On or in the lap of another occupant
7. Occupant's Height 999	
Code actual height to the nearest centimeter.	(97) In or on unenclosed area (98) Other seat (specify):
(999) Unknown	(99) Unknown
inches X 2.54 = centimeters	
9 Occurant's Weight	11. Occupant's Posture
8. Occupant's Weight 799 Code actual weight to the nearest	(0) Normal posture
kilogram.	Abnormal posture
(999) Unknown	(1) Kneeling or standing on seat
pounds X .4536 = kilograms	(2) Lying on or across seat(3) Kneeling, standing or sitting in front of seat
	(4) Sitting sideways or turned to talk with another
9. Occupant's Role	occupant or to look out a rear window (5) Sitting on a console
(1) Driver (2) Passenger	(6) Lying back in a reclined seat position
(9) Unknown	(7) Bracing with feet or hands on a surface in front of seat
	(8) Other abnormal posture (specify):
	(9) Unknown
	(5)
S Form 433A (1/96) This report is authorized by P.L. 89-56.	3, Title 1, Section 106, 108, and 112. While you are not required to

EJE	CTION/EN	ITRAPMENT
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	φ_	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown 14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown	Φ	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify):

	BELT SYSTEM FUNCTION			
18.	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify):	22. Manual Shoulder Belt Upper Anchorage Adjustment (0) No manual shoulder belt (1) No upper anchorage adjustment for manual shoulder belt Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment		
	(9) Unknown	23. Automatic (Passive) Belt System Availability/		
19.	Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt	Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative		
	 (05) Belt used—type unknown (08) Other belt used (specify): (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): 	(9) Unknown 24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown		
20.	(99) Unknown if belt used Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly	25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown		
	(2) Belt used properly with child safety seat Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify):	26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or		
21.	Manual (Active) Belt Failure Modes During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included)	automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown		
	 (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify): 	27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):		
	(9) Unknown	(6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify): (9) Unknown		

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown 31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact)
 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown" 	 (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use. [] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify):	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:
[] Unknown if belt used	33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown

	FIRST SEAT FRONT	AL AIR E	BAG SYSTEM EVALUATION
() () () ()	lad Vehicle Been in Previous Accident(s)? O) Not equipped/not available 1) No previous accidents Ves 2) Previous accident(s) without deployment(s) 3) One previous accident with deployment 4) More than one previous accident with at I one deployment 8) Previous accidents, unknown deployment 9) Unknown	east	40. Longitudinal Component of + Delta V For Air Bag - φ φ Φ Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal Delta V (_997) Not deployed (_998) Unknown if deployed (_999) Unknown
(Type of Air Bag O) Not equipped/not available 1) Original manufacturer installed system 2) Retrofitted air bag 3) Replacement air bag 8) Unknown type of air bag 9) Unknown	Φ	 41. Did Air Bag Module Cover Flap(s) Open AtΦ
((Had Any Prior Maintenance/Service Been Performed On This Air Bag System? O) Not equipped/not available 1) No prior maintenance 2) Yes, prior maintenance (specify): 9) Unknown	<u>\$</u>	 42. Were Air Bag Module Cover Flap(s) Damaged? Φ (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed
39.	Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	Φ Ψ	(8) Unknown if deployed (9) Unknown 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn (05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

	FIRST SEAT FRONTAL AIR BAG SYST EVALUATION continued	EM		HE	AD	RESTRAINT AND SEAT EVALUAT	ION
44.	Source of Air Bag Damage	44		49.		d Restraint Type/Damage by Occupant his Occupant Position	9
	(00) Not equipped/not available		_			No head restraints	
	(01) Not damaged				(1)	Integral – no damage	
	(02) Object worn by occupant, (specify):				(2) (3)	Integral – damaged during accident Adjustable – no damage	
	(03) Object carried by occupant, (specify):				(4) (5)	Adjustable—damaged during accident Add-on—no damage	
	(04) Adaptive/assistive controls, (specify):				(6) (8)	Add-on—damaged during accident Other (specify):	•
	(05) Fire in vehicle				(0)	Other (specify).	
	(06) Thermal burns				(9)	Unknown	
	(07) Rescue or emergency efforts (88) Other damage source (specify):				_		99
	(00) Other damage source (specify).			50.		t Type (this Occupant Position) Occupant not seated or no seat	<u>'/</u>
	(95) Damaged, unknown source					Bucket	
	(96) Deployed, unknown if damaged					Bucket with folding back	
	(97) Not deployed					Bench	
	(98) Unknown if deployed					Bench with separate back cushions	
	(99) Unknown			1	(05)	Bench with folding back(s)	
						Split bench with separate back cushions	
45.	Was The Air Bag Tethered?		Ψ			Split bench with folding back(s)	
	(0) Not equipped/not available					Pedestal (i.e., column supported)	
	(1) No					Box mounted seat (i.e., van type)	
	(2) Yes (specify number of tether straps):				(10)	Other seat type (specify):	
	(3) Deployed, unknown if tethered				(99)	Unknown -	Q
	(7) Not deployed (8) Unknown if deployed			51.	Sea	t Orientation (this Occupant Position)	1
	(9) Unknown					Occupant not seated or no seat	
						Forward facing seat	
46.	Did The Air Bag Have Vent Ports?	<u> </u>	<u> </u>			Rear facing seat	
1	(0) Not equipped/not available					Side facing seat (inward)	
	(1) No					Side facing seat (outward)	
	(2) Yes (specify number of vent ports):					Other (specify):	
	(3) Deployed, unknown if vent ports presen(7) Not deployed	t			(9)	Unknown	a
	(8) Unknown if deployed			52.	Sea	t Track Adjusted Position Prior To Impact	9_
	(9) Unknown					Occupant not seated or no seat Non-adjustable seat track	
47.	Was the Air Bag in this Occupant's Position		φ		(1)	Non-adjustable seat track	
'''	Contacted by Another Occupant?				Δdi	ustable Seat Track	
	(0) Not equipped/not available					Seat at forward most track position	
	(1) No			1		Seat between forward most and middle tra	ack
	(2) Yes (specify):				, .	positions	
	(3) Deployed, unknown if other occupant co	ontact	to		(5)	Seat at middle track position Seat between middle and rear most track	
	air bag (7) Not deployed					positions	
	(8) Unknown if deployed			l		Seat at rear most track position Unknown	
	(9) Unknown				(9)	Onknown	
48.	Was This Occupant Wearing Eye-wear?		9				
1	(0) Not air bag equipped/air bag not availab	le					
	(1) No						
	(2) Eyeglasses/sunglasses						
1	(3) Contact lenses						
	(4) Deployed, unknown if eyewear worn						
	(7) Not deployed (8) Unknown if deployed						
1	(9) Unknown					•	
1	,=, =			1			

99

9

D. J. D. J. J. J. Bries and Post Impact

- 53. Seat Back Incline Prior and Post Impact (00) Occupant not seated or no seat
 - (01) Not adjustable

Upright prior to impact

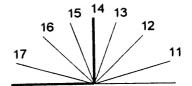
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

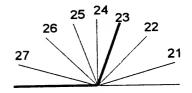
Slightly reclined prior to impact

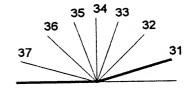
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify):
 - (7) Combination of above (specify):
 - (8) Other (specify):
 - (9) Unknown







ialic	CHILD		ETY SEAT
			58. Child Safety Seat Harness Usage ϕ
55.	Cilia datety doct metal	?_	50. Clind Safety Seat Harriss Stage T
	(000) No child safety seat Applicable codes are found in your NASS CDS		
	Data Collection, Coding and Editing		59. Child Safety Seat Shield Usage ϕ ϕ
	(950) Built-in child safety seat		
	(997) Other make/model (specify):		
			60. Child Safety Seat Tether Usage $\underline{\phi} \ \underline{\phi}$
	(998) Unknown make/model		and a state of a state
	(999) Unknown if child safety seat used		Note: Options below applicable to Variables 0A58-0A60.
		a)	(00) No child safety seat
56.	- ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	φ_	(00) 140 Clinia Salaty Sout
	(0) No child safety seat		Not Designed With Harness/Shield/Tether
	(1) Infant seat (2) Toddler seat		(01) After market harness/shield/tether
	(3) Convertible seat		added, not used
	(4) Booster seat - with shield		(02) After market harness/shield/tether used
	(5) Booster seat - with shield		(03) Child safety seat used, but no after market
	(7) Other type child safety seat (specify):		harness/shield/tether added
			(09) Unknown if harness/shield/tether
	(8) Unknown child safety seat type		added or used
Ì	(9) Unknown if child safety seat used		Designed With Harness/Shield/Tether
			(11) Harness/shield/tether not used
	A	CA.	(12) Harness/shield/tether used
57	. Child Safety Seat Orientation $\underline{\phi}$	Y	(19) Unknown if harness/shield/tether used
	(00) No child safety seat		(10) Shahow 3
	Designed for Rear Facing for This Age/Weight		Unknown If Designed With Harness/Shield/Tether
1	(01) Rear facing		(21) Harness/shield/tether not used
ļ		•	(22) Harness/shield/tether used
			(29) Unknown if harness/shield/tether used
			(99) Unknown if child safety seat used
	(09) Unknown orientation		(33) Gilkilovii ii Gilia Geres, eest
	Designed For Forward Facing for This Age/Weigh	ht	
	(11) Rear facing		
1	(12) Forward facing		
	(18) Other orientation (specify):		
	(19) Unknown orientation		
	Unknown Design or Orientation For This		
	Age/Weight, or Unknown Age/Weight		
	(22) Forward facing		
	(28) Other orientation (specify):		
	(20) Unknown orientation		
	(23) Olikilowii olielitatioli		
	(99) Unknown if child safety seat used		
	(01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weigh (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation	ht	(21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used

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INJURY CONSEQUEN	CES			
61. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown 62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify):	3	(0) No (1) Tra (2) Ho (3) Me (4) Ph (5) Tra (8) Ot (9) Un 64. Hospit (00) I	edical clinic ysician's office eatment later at medical fac her (specify): known	eility
(3) Hospitalization (4) Transported and released (5) Treatment at scene - nontrans (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facili treated (9) Unknown	ity-unknown if	(up th lost f (00) (61) (62) (97) (99)	ng Days Lost Code the number of days rough 60) that the occupan rom work due to the accide No working days lost 61 days or more Fatally injured Not working prior to accide Unknown	ent
EMI	ERGENCY RESPO			
EMS Notification (1) Not notified (2) Notified (9) Unknown	ROAD VĒHICLE	EMS 7 (01) (02) (03) (04) (05)	Fire department	ROAD VEHICLE
EMS NotificationTime (9999) Unknown	ROAD VEHICLE	(06) (07) (08) (98) (99)	Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy:	
EMS Arrival Time (9998) EMS cancelled or did not arrive	ROAD VEHICLE		Care (on scene or during trans No care administered	Sport) ROAD VEHICLE
EMS Departure Time To Treatment Facility (9997) EMS arrived, provided treatment, but did not transport (9998) EMS arrived, but was not used (9999) Unknown	ROAD VEHICLE AIR VEHICLE	(02) (03) (04) (05) (06) (07) (08) (98) (99)	First aid Resuscitation CPR Emergency cardiac care Life support system monito pulse rate, respiration, EKG Emergency burn care Combination of above, spec Other, specify: Unknown) cify:
EMS Arrival Time At Treatment Facility (9999) Unknown	ROAD VEHICLE			

STOP WORK HERE VARIABLES 66-74 TO BE CODED BY THE ZONE CENTER

TO BE CODED BY THE ZONE CENTER

		TRAILMA DATA
INJURY CONSEQUENCES		TRAUMA DATA
Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	<u>\$</u> \$\phi_{}\$	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death 69. 3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify):	φφ φ φ	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given 73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
(97) Other result (includes fatal ruled disease) (specify):		BELT USE DETERMINATION
70. Number of Recorded Injuries for This OccupantCode the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	97	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify):

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Summary of Results Using Damage

Task order 57 - Oldsmobile v. Ford

Speed Change (ROLDMISS)

Vehicle #1 Total 22 km/h (14 mph) Longitudinal

Longitudinal -22 km/h (-14 mph)
Latitudinal 2 km/h (1 mph)
PDOF Angle -5 Ø
Energy Dissipated = 36848 Joules (27174 Ft-Lb)
Barrier Equivalent Speed = 22.9 km/h (14.2 mph) Calculated using crush coefficients entered by the user.

Vehicle #2

32 km/h (20 mph) -18 km/h (-11 mph) -26 km/h (-16 mph) 55 Ø Total Longitudinal Latitudinal

PDOF Angle 55 0 Energy Dissipated = 50343 Joules (37126 Ft-Lb) Barrier Equivalent Speed = 31.2 km/h (19.4 mph) Calculated using crush coefficients entered by the user.

General Information

	Vehicle #1	Vehicle #2
Year	1996	1987
Make	Oldsmobile	Ford
Model	Cutlass Supreme	Tempo
CDC	12FDEW2	MISSING
Side Damaged	F	R
PDOF Angle	- 5 ∅	55 ø
Heading Angle	0 2	120 ø

Calculation method: Vehicle's Crush Coeff. Vehicle's Crush Coeff.

d0 crush coeff. 99.19 sqrt(N) 63.32 sqrt(N) dl crush coeff. 6.47 sqrt(N)/cm 8.02 sqrt(N)/cm 1997

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Damage Information

	٧	'ehi	cle	#1	Vehicle #2
Vehicle Damage Known		Υ	 es	-	No
Crush Length	140.0 c	:m (55	in)	0.0 cm (0 in)
C1	2.0 c	:m (1	in)	0.0 cm (0 in)
C2	9.0 c	:m (4	in)	0.0 cm (0 in)
C3	19.5 c	:m (8	in)	0.0 cm (0 in)
C4	29.5 c	:m (12	in)	0.0 cm (0 in)
C5	29.5 c	:m (12	in)	0.0 cm (0 in)
C6	13.0 c	:m (5	in)	0.0 cm (0 in)
Ð	13.0 c	:m (5	in)	0.0 cm (0 in)
D'	27.0 c	:m (11	in)	0.0 cm (0 in)

Vehicle Dimensions

	Vehicle #1	Vehicle #2
Length	492.3 cm (194 in)	448.2 cm (176 in)
Width	182.7 cm (72 in)	· · · · · · · · · · · · · · · · · · ·
Wheelbase	273.0 cm (107 in)	253.8 cm (100 in)
Weight	1649 kgs (3635 lbs)	1167 kgs (2573 lbs)
	228.1 cm (90 in)	
Engine Displacement	0.0 liters	2.3 liters
Moment of Inertia	361108 kgs (31962 lbs)	203806 kgs (18039 lbs)
Vehicle Mass	1649 kgs (9.5 lb-s^2/in)	1167 kgs (6.7 lb-s^2/in)

TO BE CODED BY THE ZONE CENTER

INJURY CONSEQUENCES	TRAUMA DATA
Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 +n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
 67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death 69. 3rd Medically Reported Cause of Death ψ ψ ψ 	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given
 3rd Medically Reported Cause of Death	73. Artenal Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
(97) Other result (includes fatal ruled disease) (specify):	BELT USE DETERMINATION
70. Number of Recorded Injuries for This OccupantCode the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used



OCCUPANT ASSESSMENT FORM

BEST AVAILABLE

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

Primary Sampling Unit Number	OCCUPANT'S SEATING
2. Case Number - Stratum AB 12	10. Occupant's Seat Position 13
2. Case Number - Stratum	Front Seat
3. Vehicle Number ϕ /	(11) Left side
4.0	(12) Middle
4. Occupant Number $\underline{\phi}$ 2	(13) Right side (14) Other (specify):
OCCUPANT'S CHARACTERISTICS	(15) On or in the lap of another occupant
5. Occupant's Age	Count Court
Code actual age at time of accident.	Second Seat (21) Left side
(00) Less than one year old (specify by month):	(22) Middle
	(23) Right side
(97) 97 years and older	(24) Other (specify):
(99) Unknown	(25) On or in the lap of another occupant
	Third Seat
	(31) Left side
6. Occupant's Sex	(32) Middle
(1) Male	(33) Right side
(2) Female-not reported pregnant	(34) Other (specify):
(3) Female-pregnant-1st trimester(1st-3rd month)	(35) On or in the lap of another occupant
(4) Female-pregnant-2nd trimester(4th-6th month)(5) Female-pregnant-3rd trimester(7th-9th month)	Fourth Seat
(6) Female-pregnant-term unknown	(41) Left side
(9) Unknown	(42) Middle
	(43) Right side
	(44) Other (specify):
7. Occupant's Height	(45) On or in the lap of another occupant
Code actual height to the nearest	(97) In or on unenclosed area
centimeter.	(98) Other seat (specify):
(999) Unknown	(99) Unknown
44 inches X 2.54 = 1 1 2 centimeters	
continueters	
8. Occupant's Weight $\phi / 7$	11. Occupant's Posture
Code actual weight to the nearest	(0) Normal posture
kilogram. (999) Unknown	Abnormal posture
(555) CHRIDWII	(1) Kneeling or standing on seat
Φ 38 pounds X .4536 = Φ 17 kilograms	(2) Lying on or across seat
	(3) Kneeling, standing or sitting in front of seat(4) Sitting sideways or turned to talk with another
9. Occupant's Role	occupant or to look out a rear window
(1) Driver	(5) Sitting on a console
(2) Passenger (9) Unknown	(6) Lying back in a reclined seat position(7) Bracing with feet or hands on a surface in front
(9) OHKHOWH	of seat
	(8) Other abnormal posture (specify):
	(9) Unknown
	2
	1.0

	EJE	CTION/E	NTRAPMENT
12	Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	φ	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
	Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown	φ	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or not oriented to time or place (2) Removed from vehicle due to perceived serious injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (8) Removed from vehicle for other reasons (specify): (9) Unknown

	BELT SYSTE	M FUNCTION
18.	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown	22. Manual Shoulder Belt Upper Anchorage Adjustment (0) No manual shoulder belt (1) No upper anchorage adjustment for manual shoulder belt Adjustable shoulder Belt Upper Anchorage
	Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify):	 (2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment
19.	Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt	23. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative
	 (05) Belt used—type unknown (08) Other belt used (specify): (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): 	(9) Unknown 24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown
20.	(99) Unknown if belt used Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly	25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown
	(2) Belt used properly with child safety seat Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify): LAP ONLY (9) Unknown	26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or
21.	Manual (Active) Belt Failure Modes During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):	automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown 27. Automatic (Passive) Belt Failure Modes During Accident
	(6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify): (9) Unknown	(0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify):
		(9) Unknown .

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
SHOURL BELY / NOT USED (9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use. [] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify): [] Unknown if belt used	 32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of *other* air bag present:
	 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown

FIRST SEAT FRONTAL AIR	BAG SYSTEM EVALUATION
35. Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal Delta V (_997) Not deployed (_998) Unknown if deployed (_999) Unknown
36. Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed
37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown	(9) Unknown 42. Were Air Bag Module Cover Flap(s) Damaged? (0) Not equipped/not available (1) No (2) Yes (specify): ラング ドル・ しょ (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed
38. Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	(8) Unknown if deployed (9) Unknown 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

	FIRST SEAT FRONTAL AIR BAG SYST EVALUATION continued	EM		HE	AD	RESTRAINT AND SEAT EVALUA	TION	
44	Source of Air Bag Damage	φ	T			Restraint Type/Damage by Occupant	3	
77.	(00) Not equipped/not available		<u> </u>	1		nis Occupant Position		
	(01) Not damaged					No head restraints		
	(02) Object worn by occupant, (specify):					Integral – no damage		
	(02) Object World by occupant, (specify):			1		Integral—damaged during accident		
	(03) Object carried by occupant, (specify):		-	1		Adjustable—no damage		
	(00) Object carried by occupant, (specify):					Adjustable—damaged during accident		
	(04) Adaptive/assistive controls, (specify):		-			Add-on—no damage		
	(04) Adaptive/assistive controls, (specify):					Add-on—damaged during accident		
	(05) Fire in vehicle		-		(8)	Other (specify):		
	(06) Thermal burns			1				
	(07) Rescue or emergency efforts			1	(9)	Unknown		
	(88) Other damage source (specify):					•		
	(00) Other damage source (specify).						<u>41</u>	
	(95) Damaged, unknown source		-			Occupant not seated or no seat		
	(96) Deployed, unknown if damaged					Bucket		
	(97) Not deployed				(02)	Bucket with folding back		
	(98) Unknown if deployed					Bench		
	(99) Unknown			İ	(04)	Bench with separate back cushions		
	(33) CHRIGANI					Bench with folding back(s)		
			1	l	(06)	Split bench with separate back cushion	s	
45.	Was The Air Bag Tethered?		1		(07)	Split bench with folding back(s)		
	(0) Not equipped/not available				(80)	Pedestal (i.e., column supported)		
	(1) No			ı	(09)	Box mounted seat (i.e., van type)		
	(2) Yes (specify number of tether straps):				(10)	Other seat type (specify):		
				1				
	(3) Deployed, unknown if tethered			1	(99)	Unknown		
	(7) Not deployed			1			1	
	(8) Unknown if deployed					Orientation (this Occupant Position)	1	
	(9) Unknown				(0)	occupant not seated or no seat		
46	Did The Air Deviller World Day 2		2		(1) F	orward facing seat		
40.	Did The Air Bag Have Vent Ports?					lear facing seat		
	(0) Not equipped/not available			1	(3) S	ide facing seat (inward)		
	(1) No					ide facing seat (outward)		
	(2) Yes (specify number of vent ports):	_		1	(8) C	ther (specify):		
	(2) Deployed value of the state							
	(3) Deployed, unknown if vent ports present(7) Not deployed] ((9) L	Inknown		
	(8) Unknown if deployed			l			/	
	(9) Unknown					Track Adjusted Position Prior To Impact	6	
	(3) CHRIGWII					ccupant not seated or no seat		
47	Was the Air Bag in this Occupant's Position		1	'	(1) N	lon-adjustable seat track		
• • •	Contacted by Another Occupant?	-						
	(0) Not equipped/not available					stable Seat Track		
	(1) No					eat at forward most track position		
	(2) Yes (specify):			1 (eat between forward most and middle ti	ack	
	(2) Tes (specify).			l .		ositions		
	(3) Deployed, unknown if other occupant co	ntaa	+ +0	1 9	(4) S	eat at middle track position		
	air bag	mac	1 10	(eat between middle and rear most track		
	(7) Not deployed					ositions		
	(8) Unknown if deployed					eat at rear most track position		
	(9) Unknown			((9) U	nknown		
	(3) OTIKTIOWIT			1				
48.	Was This Occupant Wearing Eye-wear?							
	(0) Not air bag equipped/air bag not available	_	 -	ļ				
	(1) No	;						
	(2) Eyeglasses/sunglasses			ł				
	(3) Contact lenses			Ī				
				ļ				
	(4) Deployed, unknown if eyewear worn(7) Not deployed			l				
	(8) Unknown if deployed							
	(9) Unknown			Ì				
	101 OTIVITOTALI		l	1		•		- 1

HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact
 - (00) Occupant not seated or no seat
 - (01) Not adjustable

Upright prior to impact

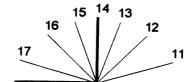
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

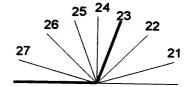
Slightly reclined prior to impact

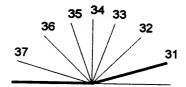
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify):
 - (7) Combination of above (specify):
 - (8) Other (specify):
 - (9) Unknown







		CHIL	D SA	FETY	SE	EAT	
(O A)	nild Safety Seat Make/Model 4 00) No child safety seat oplicable codes are found in your NASS	P P CDS	<u>\$</u>	58. 0	Chilo	d Safety Seat Harness Usage	φ 9
(9	ata Collection, Coding and Editing 50) Built-in child safety seat			59. C	hild	d Safety Seat Shield Usage	φ_
(9: (9:	97) Other make/model (specify): 98) Unknown make/model 99) Unknown if child safety seat used	-		N	lote	d Safety Seat Tether Usage e: Options below applicable to ables 0A58-0A60.	<u> </u>
(0) (1) (2) (3) (4) (5) (7)	pe of Child Safety Seat No child safety seat Infant seat Toddler seat Convertible seat Booster seat - with shield Booster seat - without shield Other type child safety seat (specify): Unknown child safety seat type Unknown if child safety seat used		φ	(C)	00) (ot L 01) 02) 03)	No child safety seat Designed With Harness/Shield/Tether After market harness/shield/tether added, not used After market harness/shield/tether use Child safety seat used, but no after m harness/shield/tether added Unknown if harness/shield/tether added or used	ed arket
57. Ch (00	ild Safety Seat Orientation No child safety seat	<u> </u>	<u> </u>	(1 (1	1) 2)	gned With Harness/Shield/Tether Harness/shield/tether not used Harness/shield/tether used Unknown if harness/shield/tether used	l
(01 (02 (08	signed for Rear Facing for This Age/Wel) Rear facing) Forward facing) Other orientation (specify): Unknown orientation	ight		(2 (2 (2	1) 2) 9)	nown If Designed With Harness/Shield/T Harness/shield/tether not used Harness/shield/tether used Unknown if harness/shield/tether used	
Des (11 (12 (18 (19 <i>Unk</i>	signed For Forward Facing for This Age/) Rear facing) Forward facing) Other orientation (specify): Unknown orientation snown Design or Orientation For This e/Weight, or Unknown Age/Weight	∕Weigh	ht	(9	9)	Unknown if child safety seat used	
(22) (28) (29)	Rear facing Forward facing Other orientation (specify): Unknown orientation Unknown if child safety seat used						
			- 1				

INJURY CONSEQ	UENCES			
61. Injury Severity (Police Rating)	4	63 Type	Of Medical Facility (for Initial Tre	eatment) Z
(0) 0 11			Not treated at a medical facility	
(0) O - No injury			Frauma center	
(1) C - Possible injury		(2) H	lospital	
(2) B - Nonincapacitating injury(3) A - Incapacitating injury	ту		Medical clinic	
(4) K - Killed			Physician's office	
(5) U - Injury, severity unknow	wn		Freatment later at medical facility	
(6) Died prior to accident	•	(8) (Other (specify):	
(9) Unknown		(9) (Jnknown	
62 Treatment - Mortality	1			
62. Treatment - Mortality (0) No treatment			oital Stay	49
(1) Fatal		(00)	Not Hospitalized	
(2) Fatal - ruled disease (spec	ifv)·		_Code the number of days (up thr	ough 60)
(2) . ata taloa alboaso (spoo	, , .		the occupant stayed in hospital.	
			61 days or more	
Nonfatal		(99)	Unknown	
(3) Hospitalization		CE 14/- 1	Charles David Land	62
(4) Transported and released		os. wor	king Days Lost	
(5) Treatment at scene - nont	ransported	/up +	_Code the number of days hrough 60) that the occupant	
(6) Treatment later			from work due to the accident	
(7) Treatment - other (specify	'):		No working days lost	
			61 days or more	
(8) Transported to a medical t	facility-unknown if	1	Fatally injured	
treated			Not working prior to accident	
(9) Unknown			Unknown	
	EMERGENCY RESDO	MICE IN	ORMATION	
	EMERGENCY RESPO			
EMS Notification	EMERGENCY RESPO	EMS	Туре	ROAD VEHICLE
EMS Notification (1) Not notified	~~~	EMS (01)	Type Fire department	ROAD VEHICLE
EMS Notification (1) Not notified	~~~	EMS (01) (02) (03)	Type Fire department Rescue squad Police department	ROAD VEHICLE
EMS Notification (1) Not notified (2) Notified	ROAD VĒHICLE	EMS (01) (02) (03) (04)	Type Fire department Rescue squad Police department Trauma unit	
EMS Notification (1) Not notified (2) Notified (9) Unknown	ROAD VĒHICLE	EMS (01) (02) (03) (04) (05)	Type Fire department Rescue squad Police department Trauma unit Disaster unit	
EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime	ROAD VĒHICLE	EMS (01) (02) (03) (04) (05) (06)	Type Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit	
EMS Notification (1) Not notified (2) Notified (9) Unknown	ROAD VĒHICLĒ	EMS (01) (02) (03) (04) (05) (06) (07)	Type Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital	
EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime	ROAD VĒHICLĒ	EMS (01) (02) (03) (04) (05) (06)	Type Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit	
EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown	ROAD VĒHICLĒ AIR VĒHICLĒ ROAD VĒHICLĒ	EMS (01) (02) (03) (04) (05) (06) (07) (08)	Type Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes	
EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown	ROAD VEHICLE AIR VEHICLE ROAD VEHICLE AIR VEHICLE	EMS (01) (02) (03) (04) (05) (06) (07) (08) (98)	Type Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy:	
EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown EMS Arrival Time (9998) EMS cancelled or did	ROAD VĒHICLĒ AIR VĒHICLĒ ROAD VĒHICLĒ	EMS (01) (02) (03) (04) (05) (06) (07) (08) (98) (99)	Type Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy: Unknown	
EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown EMS Arrival Time (9998) EMS cancelled or did not arrive	ROAD VEHICLE AIR VEHICLE ROAD VEHICLE AIR VEHICLE	EMS (01) (02) (03) (04) (05) (06) (07) (08) (98) (99)	Type Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy: Unknown Care (on scene or during transport)	
EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown EMS Arrival Time (9998) EMS cancelled or did	ROAD VEHICLE ROAD VEHICLE ROAD VEHICLE ROAD VEHICLE ROAD VEHICLE	EMS (01) (02) (03) (04) (05) (06) (07) (08) (98) (99)	Type Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy: Unknown	ROAD VEHICLE
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TO BE CODED BY THE ZONE CENTER

INJURY CONSEQUENCES	TRAUMA DATA	
Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured	2 _
68. 2nd Medically Reported Cause of Death	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given	9_
Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify):	73. Arterial Blood Gases (ABG) – HCO ₃ Φ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured	(<u> </u>
disease) (specify):	BELT USE DETERMINATION	
70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used	2



U.S. Department of Transportation

National Highway Traffic Safety Administration

OCCUPANT INJURY FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

- 1. Primary Sampling Unit Number _____ 3. Vehicle Number ______

INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

	A.I.S 90							Injury		Occupant	
	Source of Injury Data	Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Area Intrusior Number
1st	5	6. <u>4</u>	7. <u>4</u>	8. <u>1 4</u>	9. <u>ØZ</u>	10. <u>3</u>	11. <u>Z</u> 12.	_18 φ	13. <u>Z</u>	14/ 1	5. <u>P</u> 9
2nd	16	17. <u>4</u>	18. <u>5</u>	19. 02	20. <u>3 ψ</u>	21. <u>3</u>	22.223.	18 9	24. 2	25 2	6. <u>4 9</u>
3rd	27	28. <u>/</u>	29. <u>4</u>	30. <u>Ø</u>	31. <u></u>	32. <u></u>	33. <u> </u> 9 34.	_180	352	36/ 3	7. <u>ø 4</u>
4th	38. <u> </u>	39. <u>/</u>	40	41. <u>Ø (</u>	42. ² . Ø	43. <u>3</u>	44. <u>0</u> 45.	180	46. <u>Z</u>	47. <u>/</u> 4	8. <u>Ø</u> <u>Ø</u>
5th	49. <u>/</u> 8	50. <u>5</u>	51. <u>4</u>	52. <u>4 2</u>	53. <u>2 ¢</u>	542_	552 56.	<u> 15 2</u>	57. <u>2</u>	58/ 5	9. <u>�</u> �
6th	60. <u> </u>	51 5	62. <u>4</u>	63. <u>/8</u>	64. 22	65	66 67.	152	68	69 7	o. <u>ψ</u> Φ
7th	71. <u> </u> 7	72	73. <u>9</u>	74. <u> </u>	75. <u>\$\Phi\ 2</u>	76	77. <u>1</u> 78.	697	79. <u>9</u>	80. <u>7</u> 8	1. <u>Ø</u> Ø
8th	82 8	33. <u>4</u>	84. <u>9</u>	85. <u>4 4</u>	86. 42	87(88. 2 89.	697	90. <u>9</u>	91. 7	2. <u>Ø</u> Ø
9th	93 9	94. 6	95	96	97. <u>ϕ 4</u>	982	99. <u>6</u> 100.	180	1011	02. / 10	з. <u>Ф</u>
10th 1	04 10	os. <u>3</u>	106 1	o7.Φ 2	108. 4 2	109. /	110. <u>5</u> 111.	18 φ	112 1	13 11	4. <u> </u>

OCCUPANT INJURY DATA											
	Source of Injury Data	Body Region	Type of Anatomic Structure	A.I.S 90 Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion Number
24 14th	<u> </u>	_2	<u>. </u>	<u> \$2</u>	<u>\$</u> 2			697	<u>9</u>	7_	<u> </u>
27 12th	1		<u> </u>	<u> </u>	<u> </u>		1	697	<u> 9</u>	7	φφ
28 18th	1	7	9	<u> </u>	φ2	<u> </u>	<u></u>	697	<u>-</u> 9	7	<u> </u>
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?0 15111	<u>. L</u>	_7	9	<u> </u>	42		<u>-</u>	185		1_	44
31 46th	1	<u>.7</u>	9_	<u> </u>	42		<u>-</u>	<u> </u>			५१
32 17th	1	<u> 7</u>	9_	<u>06</u>	<u> </u>	4.	<u>z</u>	491			<u>9</u>
18th			_			_	_				
19th	<u> </u>									_	
20th									_	_	
21st	_	<u>-</u>					_			_	
22nd		_	_	t 	<u>-</u>						<u> </u>
23rd		_									
24th		_	_	1- <u>, 1</u>					(183), 		
25th	* *		*.	**				- 2 1	- 0		

OCCUPANT INJURY CLASSIFICATION

Body Region (1) Head (2) Face

- (3) Neck (4) Thorax
- (5) Abdomen. (6) Spine
- (7) Upper Extremity(8) Lower Extremity
- (9) Unspecified

Type of Anatomic Structure

- (1) Whole Area
- (2) Vessels
- (3) Nerves
- (4) Organs (includes Muscles/ligaments)
- (5) Skeletal (includes joints)
- (6) Head LOC
- (9) Skin

Specific Anatomic Structure

Vessels, Nerves, Organs, Bones, Joints are assigned consecutive two digit numbers beginning with 02.

The exceptions to this rule apply to:

Whole Area

- (02) Skin Abrasion (04) Skin - Contusion
- (06) Skin Laceration
- (08) Skin Avulsion
- (10) Amputation
- (20) Burn
- (30) Crush
- (40) Degloving
- (50) Injury NFS
- (90) Trauma, other than mechanical

Head - LOC

- (02) Length of LOC
- (04) Level
- (06) of
- (08) Consciousness
- (10) Concussion

Spine

- (02) Cervical
- (04) Thoracic
- (06) Lumbar

Level of Injury

Specific injuries are assigned consecutive two-digit numbers beginning with 02.

To the extent possible, within the organizational framework of the AIS, 00 is assigned to an injury NFS as to severity or where only one injury is given in the dictionary for that anatomic structure. 99 is assigned to any injury NFS as to lesion or severity.

Abbreviated Injury Scale

- (1) Minor Injury
- (2) Moderate Injury
- (3) Serious Injury
- (4) Severe Injury
- (5) Critical Injury
- (6) Maximum (untreatable)
- (7) Injured, unknown severity

Aspect

- 1) Right
- (2) Left
- (3) Bilateral (4) Central
- (5) Anterior
- (6) Posterior
- (7) Superior
- (8) Inferior (9) Unknown
- (0) Whole region

(1) Direct contact injury
(2) Indirect contact injury
(3) Noncontact injury
(7) Injured, unknown source

SOURCE OF INJURY DATA

OFFICIAL RECORDS

- (1) Autopsy records with or without hospital/medical records
- (2) Hospital/medical records other than emergency room (e.g., discharge summary)
- (3) Emergency room records only (including associated X-rays or other lab reports)
- (4) Private physician, walk-in or emergency clinic

UNOFFICIAL RECORDS

- (5) Lay coroner report
- (6) E.M.S. personnel
- (7) Interviewee
- (8) Other source (specify):
- (9) Police

INJURY SOURCE CONFIDENCE LEVEL

- (1) Certain
- (2) Probable
- (3) Possible
- (9) Unknown

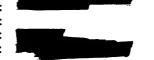
REPORT OF FINDINGS

Decedent

OMI #

Date report issued : Place pronounced

County pronounced: :



Date of Birth

Date death pronounced:

Time death pronounced:

Cause of Death

: Multiple injuries

Manner of Death

: Accident

Date of Injury

Place of Injury

Location of Injury:

How Injury Occurred: Passenger of auto in collision with auto

Autopsy performed by

Death Certificate signed by : Deputy Medical Investigator :

District Attorney Law Enforcement Agency/Agent:

Hospital

Other Agency

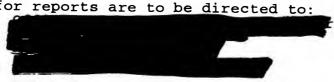


For details concerning this death, contact the law enforcement agency listed, records section.

For copies of the Death Certificate, contact the

Appropriate investigative reports are available from the as required by law. Fees are assessed where required. A review of the reports in the of the Office of the is available upon request.

All requests for reports are to be directed to:



AGE: 4 SEX: Fem RACE: Neg DOB:

SPECIMEN:

Received by:

Date:

All specimens taken during autopsy unless otherwise noted

2 Other ABDOMINAL CAVITY 1 Urine

2 Vitreous

EXAMINATION REQUESTED:

X Alcohol

X Drugs of Abuse

RESULTS:

Alcohol, ABDOMINAL CAVITY, GLC; ETHANOL: None detected (Detection limit for Ethanol is 0.005%)

Drugs of Abuse, Urine , EMIT; Drugs of Abuse : None detected

x Final Report

Laboratory No.

REQUESTED BY:

REVIEWED: TOXICOLOGIST:

DATE:

POSTMORTEM EXAMINATION

An autopsy is performed on a body identified as of the

_at the Office

EXTERNAL EXAMINATION

The body is that of a well developed, well nourished, Black, female child, who weighs 38 pounds, is 44 inches in length, and appears compatible with the stated age of 4 years. There are identification bands around the right wrist, right ankle, and left ankle.

The body is received unclad, accompanied by:

- 1. A pink, blue, and green patterned sweater;
- 2. A pair of blue jeans;
- 3. Two blue and purple socks;
- One gray snow boot.

The sweater is previously cut, consistent with emergency medical intervention.

The body is cool. Rigor mortis is fully fixed. Fixed purple livor mortis extends over the posterior surfaces of the body, except in areas exposed to pressure.

The scalp hair is black, curly, and measures 1 1/2 inches in length over the crown. The irides are brown. The pupils are bilaterally equal at 0.5 cm. The cornea are translucent. The sclerae show several purple-black areas of discoloration. There are a few scattered petechiae on the bulbar and palpebral conjunctivae of the lower eyelids. The nose and ears are not The teeth are natural and in good repair, with the exception of listed injuries. The neck is apparently more mobile than normal in the high cervical area.

The thorax is well developed and symmetrical. The abdomen is flat. The anus and back are unremarkable.

The breasts are not developed, consistent with the decedent's age. genitalia are those of a normal female child.

The upper and lower extremities are well developed and symmetrical, without absence of digits.

Identifying marks and scars include:

- A 1 1/8 x 1/16 inch white-tan linear scar on the right lateral 1. proximal forearm;
- 2. A 1 $1/2 \times 1/16$ inch white linear scar on the right dorsal hand;
- A 3/8 x 1/4 inch white-tan oval scar on the right lower medial 3. back;
- A 1/2 x 1/8 inch tan linear scar on the medial proximal right 4. lower leg; A 1/4 x 1/4 inch white-tan round scar on the left knee;
- 5.
- 6. A $3/8 \times 1/8$ inch linear tan scar on the medial proximal left

lower leg.

Evidence of medical intervention includes :

- 1. A nasogastric tube in the left naris;
- 2. An endotracheal tube;
- A Foley catheter;
 - Intravascular catheters in the antecubital fossae;
 - 5. Electrocardiograph pads over the left chest, right chest, and left lower abdomen and flank.

EVIDENCE OF INJURY

HEAD AND NECK: On the right posterior parietal scalp is a $7/8 \times 7/8$ inch On the left forehead is a 3/8 x 1/4 inch oval dried redred abrasion. purple abrasion. On the left temple lateral to the eyebrow is a $1/2 \times 3/8$ inch oval dried red-tan abrasion. Below the inferior attachment of the left ear is a $3/8 \times 1/4$ inch oval dried red tan abrasion. On the superior portion of the left ear is a $3/8 \times 1/8$ inch red-tan dried abrasion. left posterior ear is a 1 $7/8 \times 1/2$ inch dried red-tan abrasion. to the left ear is a $5/8 \times 1/4$ inch dried red-tan oval abrasion. left cheek and jaw is a 2 $1/2 \times 1$ 1/2 inch red-tan dried abrasion. Surrounding the right eye is a blue-green contusion. Lateral to the right eye is a 3/4 x 1/4 inch linear dried red-purple abrasion. On the under surface of the chin is a $3/4 \times 1/4$ inch red-tan dried abrasion. On the mid neck in the midline is a 1 \times 1/2 inch discontinuous linear horizontal red-tan dried abrasion. On the mucosal surface of the left lower lip is a $3/4 \times 1/4$ inch laceration with surrounding red-purple hemorrhage. lower lip frenulum is lacerated, with surrounding hemorrhage. On the tip of the tongue on the right side is a $1/2 \times 1/8$ inch irregular laceration. On the left posterior portion of the tongue is a $1/2 \times 1/8$ inch irregular The mandible is fractured, with several loose lower teeth and laceration. a fractured lower incisor.

Internally, in the subcutaneous tissue of the scalp underlying the abrasion on the right posterior parietal region, is a 2 x 1 cm. contusion. A thin layer of liquid blood is present in the right and left subdural space over the convexities. Subarachnoid hemorrhage is present primarily over the frontal lobes and around the base of the brain and brain stem. There are several areas of paramidline cortical contusion over the anterior frontal lobes bilaterally. A moderate amount of soft tissue hemorrhage is present at the atlantoaxial joint without evident fracture. The joint itself is slightly loose. Mild anterior distraction of the intervertebral disk at the C2-C3 level is present.

THORAX AND ABDOMEN: On the upper thorax, both right and left, are faint scattered purple-red contusions. On the left lateral abdomen and flank, extending onto the left back, is a $5\ 1/4\ x\ 3/4$ inch red, purple, and tan near horizontal abrasion.

Internally are posteromedial fractures of the left 3rd-7th and left 10th ribs, with associated soft tissue hemorrhage. On the posterior left lung upper lobe is a 3 x 5 cm. contusion. In the soft tissues of the anterior and posterior mediastinum including the thymus and in the left supraclavicular area are moderate amounts of hemorrhage. The splenic capsule and parenchyma are disrupted by numerous irregular lacerations.

V

the posterior lateral edge of the right lobe of the liver is a 0.5 cm. laceration. A moderate amount of hemorrhage is within the falciform ligament. The abdominal cavity contains 400 ml. of liquid blood.

UPPER EXTREMITIES: On the posterior proximal left forearm is a 4 $1/4 \times 2$ inch purple contusion. On the left hand are multiple small red-purple abrasions and small lacerations measuring up to 1/8 inch. On the anterior proximal right forearm is a $1 \cdot 1/8 \times 5/8$ inch red-purple contusion. On the right distal medial forearm is a 1/2 inch round red-purple contusion. On the right medial wrist is a 1/2 inch round red-purple contusion.

INTERNAL EXAMINATION

BODY CAVITIES: No adhesions are in any of the body cavities. Twenty (20) ml. of serosanguineous fluid are in the right pleural cavity. Fifteen (15) ml. of serosanguineous fluid are in the left pleural cavity. The abdominal cavity contains the previously mentioned blood. All body organs are present in normal and anatomic position.

HEAD (CENTRAL NERVOUS SYSTEM): The brain weighs 1,070 grams. The dura mater and falx cerebri are intact, and the leptomeninges are thin and delicate, with the previously described abnormalities. The cerebral hemispheres are symmetrical. The structures at the base of the brain, including cranial nerves and blood vessels, are intact and free of abnormality. Sections through the cerebral hemispheres reveal small cortical hemorrhages in the previously noted contused regions. No other lesions are identified within the cortex, subcortical white matter, or deep parenchyma of either hemisphere. The cerebral ventricles are of normal caliber. Sections through the brain stem and cerebellum are unremarkable. The cervical spinal cord is examined. No abnormalities are visible.

NECK: Examination of the soft tissues of the neck, including strap muscles and large vessels, reveals no abnormalities, with the exception of the previously described soft tissue hemorrhage. The hyoid bone and larynx are intact. The tongue is normal, aside from the previously described lacerations.

CARDIOVASCULAR SYSTEM: The heart weighs 55 grams. The pericardial surfaces are smooth, glistening, and unremarkable. The pericardial sac is free of significant fluid or adhesions. The coronary arteries arise normally and follow the usual distribution of a left dominant pattern with no significant atherosclerotic stenoses. The chambers and valves exhibit the usual size/position relationship and are unremarkable. The myocardium is dark red-brown, firm, and unremarkable; the atrial and ventricular septa The aorta and its major branches arise normally and follow the are intact. usual course, with no significant atherosclerosis or laceration. foramen ovale is membrane closed. The vena cava and its major tributaries return to the heart in the usual distribution and are unremarkable.

RESPIRATORY SYSTEM: The right and left lungs weigh 150 and 135 grams, respectively. The upper and lower airways are patent, and the mucosal surfaces are smooth, yellow-tan, and unremarkable. The pleural surfaces are smooth, glistening, and unremarkable, aside from the previously described contusion. The pulmonary parenchyma is dark red-purple and exudes slight to moderate amounts of blood and frothy fluid. The pulmonary

arteries are normally developed and patent.

LIVER AND BILIARY SYSTEM: The liver weighs 450 grams. The hepatic capsule is smooth, glistening, and intact, covering red-brown parenchyma. There is a small laceration, as noted. The gallbladder contains viscid bile. The extrahepatic biliary tree is patent.

ALIMENTARY TRACT: The esophagus is lined by gray-white, smooth mucosa. The gastric mucosa is arranged in the usual rugal folds, and the lumen contains a large amount of thick green material and partially digested food fragments. The small and large bowel are unremarkable. The appendix is present. The colon contains unformed stool. The mesentery, including the root and blood vessels, is intact without disruption. There are numerous appropriately enlarged mesenteric lymph nodes. The pancreas has a normal, gray-white, lobulated appearance, and the ducts are clear.

GENITOURINARY TRACT: The right and left kidneys weigh 30 grams each. The renal capsules are smooth, thin, semitransparent, and strip with ease from the underlying smooth, red-brown, firm, cortical surfaces. The cortices are sharply delineated from the medullary pyramids. The calyces, pelves, and ureters are unremarkable. The urinary bladder contains no urine; the mucosa is gray-tan and smooth. The uterus, Fallopian tubes, ovaries, and vagina are unremarkable.

RETICULOENDOTHELIAL SYSTEM: The spleen weighs 50 grams with the previously described capsular and parenchymal lacerations. The splenic lymphoid follicles are unremarkable. The regional lymph nodes appear normal.

ENDOCRINE SYSTEM: The pituitary, thyroid, and adrenal glands are unremarkable.

MUSCULOSKELETAL SYSTEM: The bony framework, supporting musculature, and soft tissues are not unusual, with the exception of the previously described injuries.

MICROSCOPIC NOTES

BRAIN: Sections of the temporal and frontal cortex show acute subarachnoid hemorrhage and several small areas of intraparenchymal perivascular acute hemorrhage consistent with contusions. Sections of the pons show focal acute intraparenchymal hemorrhage in the posterior aspect and acute subarachnoid hemorrhage. Sections of the cerebellum show acute subarachnoid hemorrhage. Sections of the spinal cord are unremarkable with no evidence of hemorrhage, laceration, or contusion.

HEART: There is an irregular loose grouping of lymphocytes in the right ventricle myocardium, with associated interstitial edema. Myocyte necrosis is not seen. Otherwise, sections show normal myocytes without inflammation, hypertrophy, hemorrhage, or other abnormality.

LUNGS: Sections show normal alveoli, bronchioles, and blood vessels with broad zones of acute intra-alveolar, septal, and subpleural hemorrhage. Small benign lymphoid aggregates are present.

KIDNEYS: Sections show unremarkable glomeruli, tubules, interstitium, and blood vessels. Acute hemorrhage is present in the renal pelvis and perinephric fat.

LIVER: Sections of the liver show unremarkable hepatic cords, sinusoids, and portal triads without inflammation, masses, or fibrosis.

SPLEEN: Sections show the usual architecture of red and white pulp with large areas of acute intraparenchymal hemorrhage.

THYROID: Sections show variably-sized follicles without abnormality.

THYMUS: Sections show the usual architecture of thymic cortex and medulla with focal acute parenchymal hemorrhage.

ADRENALS: Sections show an unremarkable cortex and medulla without abnormality.

PANCREAS: Sections show unremarkable acini and islets without abnormality.

OVARY: Sections show a normal cortex with numerous follicles for age.

LYMPH NODE: Sections show the usual architecture with prominent lymphoid follicles.

PATHOLOGIC DIAGNOSES

- Blunt trauma, head and neck
 - A. Multiple abrasions and contusions of head and neck
 - B. Mandible fracture, with lacerations of lower lip and lower frenulum
 - C. Soft tissue hemorrhage of cervical spine, C1-C2
 - D. Extension injury of cervical spine, C2-C3
 - E. Subdural and subarachnoid hemorrhage
 - F. Acute cerebral and pontine contusions
- II. Blunt trauma, thorax and abdomen
 - A. Contusions and abrasions over thorax and left lower trunk
 - B. Multiple left rib fractures
 - C. Left lung contusion
 - D. Mediastinal soft tissue hemorrhage
 - E. Multiple lacerations of spleen, with hemoperitoneum (400 ml.)
 - F. Liver laceration
 - G. Hemorrhage into falciform ligament
- III. Multiple contusions and abrasions of upper extremities

OPINION

This 4 year old female child, died of multiple blunt trauma injuries sustained in a motor venice corrision. She was reportedly the right front seat passenger. The decedent was unresponsive at the scene and transported to a regional medical center where she was diagnosed with closed head injuries. She was airlifted to another regional medical center and pronounced dead shortly after arrival.

The airbags in the decedent's vehicle reportedly deployed. There is conflicting historical and investigative information regarding seatbelt use by the decedent.

Autopsy revealed multiple blunt trauma injuries including bruising of the brain (cerebral contusions) with bleeding around the brain (subarachnoid and subdural hemorrhage), a broken jaw, neck injuries, broken left ribs and left lung bruise, and splenic and liver lacerations with abundant internal bleeding. Multiple scrapes (abrasions) and bruises (contusions) of the scalp, face, neck, trunk, and arms were also identified.

Cutaneous blunt force injuries (abrasions) of the neck and lower left trunk are consistent with shoulder and lap belts around the decedent, perhaps with the left hip facing somewhat forward. Other cutaneous blunt force injuries of the face, chest, and arms (abrasions, contusions, and lacerations) are consistent with impact with an object or objects in the motor vehicle such as an air bag. Extensive abdominal and chest injuries are likely associated with seat belts, if worn, while other internal (head) injuries may be associated with impact with the air bag or other internal surfaces of the car.

The manner of death is accident.

OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

	OCCUPANT'S SEATING
1. Primary Sampling Unit Number	10. Occupant's Seat Position 13
2. Case Number - Stratum AB 12	10. Occupant's Seat Position
2 Vehicle Newbox	(11) Left side
3. Vehicle Number	(12) Middle
4. Occupant Number	(13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify):
OCCUPANT O CHANACTERISTICS	(15) On or in the lap of another occupant
5. Occupant's Age ϕ 7	Second Seat
Code actual age at time of accident.	(21) Left side
(00) Less than one year old (specify by month):	(22) Middle
(97) 97 years and older	(23) Right side (24) Other (specify):
(99) Unknown	(25) On or in the lap of another occupant
(55) 5	, , , , , , , , , , , , , , , , , , , ,
	Third Seat
6 Occupant's Say	(31) Left side
6. Occupant's Sex (1) Male	(32) Middle (33) Right side
(2) Female-not reported pregnant	(34) Other (specify):
(3) Female-pregnant-1st trimester(1st-3rd month)	(35) On or in the lap of another occupant
(4) Female-pregnant-2nd trimester(4th-6th month)	
(5) Female-pregnant-3rd trimester(7th-9th month)	Fourth Seat
(6) Female-pregnant-term unknown(9) Unknown	(41) Left side (42) Middle
(3) Olikilowii	(43) Right side
	(44) Other (specify):
7. Occupant's Height 9 9 9	(45) On or in the lap of another occupant
	(07) In an an arranged and
Code actual height to the nearest centimeter.	(97) In or on unenclosed area (98) Other seat (specify):
(999) Unknown	(99) Unknown
inches X 2.54 = centimeters	
8. Occupant's Weight 999	11. Occupant's Posture ϕ
Code actual weight to the nearest	(0) Normal posture
kilogram.	Abnormal posture
(999) Unknown	(1) Kneeling or standing on seat
nounde Y 4526 Lilearens	(2) Lying on or across seat
pounds X .4536 = kilograms	(3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another
9. Occupant's Role	occupant or to look out a rear window
(1) Driver	(5) Sitting on a console (6) Lying back in a reclined seat position
(2) Passenger (9) Unknown	(7) Bracing with feet or hands on a surface in front
(9) Ohkhown	of seat
	(8) Other abnormal posture (specify):
	(9) Unknown
S Form 433A (1/96) This report is authorized by P1 89.563 Ti	le 1 Section 106 108 and 112 While you are not required to

	EJ	ECTION/E	NTRAPMENT
12.	Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	_φ_	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13.	Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	<u>.</u>	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or
14.	Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown	φ	not oriented to time or place (2) Removed from vehicle due to perceived serious injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (8) Removed from vehicle for other reasons (specify): (9) Unknown

	BELT SYSTEM	W FUNCTION
18.	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown	22. Manual Shoulder Belt Upper Anchorage Adjustment (0) No manual shoulder belt (1) No upper anchorage adjustment for manual shoulder belt Adjustable shoulder Belt Upper Anchorage (2) In full up position
	Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify):	 (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment
19.	(9) Unknown Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): (02) Shoulder belt	23. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional
	(03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify): (12) Shoulder belt used with child safety seat	rendered inoperative (1) Automatic belt in use
	 (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): (99) Unknown if belt used 	(2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown 25. Automatic (Passive) Belt System Type
20.	Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat	(0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown 26. Proper Use of Automatic (Passive)
	Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify):	Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or
21.	Manual (Active) Belt Failure Modes During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included)	automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown
	 (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify): (9) Unknown 	27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify):
		(9) Unknown

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	 31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown 32. Other Than First Seat Frontal Air Bag
Check the Primary Source Used In Determining Belt Use. [Availability/Function (This Occupant Position) (O) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:
	 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown

	FIRST SEAT FRONTAL	AIR BAG	G SYSTEM EVALUATION
(3) One previous accid(4) More than one pre one deployment	ents s) without deployment(s)	t	 O. Longitudinal Component of Delta V For Air Bag Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal Delta V (_997) Not deployed (_998) Unknown if deployed (_999) Unknown
36. Type of Air Bag (0) Not equipped/not a (1) Original manufactu (2) Retrofitted air bag (3) Replacement air ba (8) Unknown type of a (9) Unknown	available urer installed system ag air bag	Ψ	 Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed (9) Unknown
 37. Had Any Prior Mainter Been Performed On Th (0) Not equipped/not at (1) No prior maintenan (2) Yes, prior mainten (9) Unknown 38. Air Bag Deployment A 	nis Air Bag System? available nce ance (specify):		 2. Were Air Bag Module Cover Flap(s) Damaged? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed (8) Unknown if deployed
Sequence Number (00) Not equipped/no Code the ac	t available ccident event sequence t initiated the air bag		(9) Unknown 3. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
39. CDC For Air Bag Deplo (0) Not equipped/not a (1) Highest delta V (2) Second highest de (3) Other non-coded of (6) Deployed, unknow (7) Not deployed (8) Unknown if deploy (9) Unknown	lta V lelta V (specify):	Φ	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

FIRST SEAT FRONTAL AIR BAG SYST EVALUATION continued	EM	HEAD RESTRAINT AND SEAT EVALUATION
44. Source of Air Bag Damage	φ φ	49. Head Restraint Type/Damage by Occupant φ at This Occupant Position
(00) Not equipped/not available		(0) No head restraints
(01) Not damaged		(1) Integral—no damage
(02) Object worn by occupant, (specify):		
(OZ) OBJOC WOM BY COORPAINE, (OPCOM),		(2) Integral—damaged during accident
(03) Object carried by occupant, (specify):		(3) Adjustable—no damage
(03) Object carried by occupant, (specify).		(4) Adjustable—damaged during accident
(O4) Adaptive/positive controls (procify):		(5) Add-on—no damage
(04) Adaptive/assistive controls, (specify):		(6) Add-on-damaged during accident
(OE) E:		(8) Other (specify):
(05) Fire in vehicle		•
(06) Thermal burns		(9) Unknown
(07) Rescue or emergency efforts		2
(88) Other damage source (specify):		50. Seat Type (this Occupant Position) 43
		(00) Occupant not seated or no seat
(95) Damaged, unknown source		(01) Bucket
(96) Deployed, unknown if damaged		(02) Bucket with folding back
(97) Not deployed		(03) Bench
(98) Unknown if deployed		(04) Bench with separate back cushions
(99) Unknown		(05) Bench with folding back(s)
		(06) Split bench with separate back cushions
	Φ	(07) Split bench with folding back(s)
45. Was The Air Bag Tethered?		(08) Pedestal (i.e., column supported)
(0) Not equipped/not available		
(1) No		(09) Box mounted seat (i.e., van type)
(2) Yes (specify number of tether straps):		(10) Other seat type (specify):
		100) 11.1
(3) Deployed, unknown if tethered		(99) Unknown
(7) Not deployed		
(8) Unknown if deployed		51. Seat Orientation (this Occupant Position)
(9) Unknown		(0) Occupant not seated or no seat
46 Did The Air Dea House Vest Bosto?	φ	(1) Forward facing seat
46. Did The Air Bag Have Vent Ports?	<u> </u>	(2) Rear facing seat
(0) Not equipped/not available		(3) Side facing seat (inward)
(1) No		(4) Side facing seat (outward)
(2) Yes (specify number of vent ports):		(8) Other (specify):
(3) Deployed, unknown if vent ports presen	it	(9) Unknown
(7) Not deployed		,
(8) Unknown if deployed		52. Seat Track Adjusted Position Prior To Impact
(9) Unknown		(0) Occupant not seated or no seat
	4	(1) Non-adjustable seat track
47. Was the Air Bag in this Occupant's Position	φ_	
Contacted by Another Occupant?		Adjustable Seat Track
(0) Not equipped/not available		(2) Seat at forward most track position
(1) No		(3) Seat between forward most and middle track
(2) Yes (specify):		positions (4) Seat at middle track position
(3) Deployed, unknown if other occupant co	ontact to	(5) Seat between middle and rear most track
(7) Not deployed		positions
(8) Unknown if deployed		(6) Seat at rear most track position
(9) Unknown		(9) Unknown
19) OHAHOWH		
48. Was This Occupant Wearing Eye-wear?	φ	
(0) Not air bag equipped/air bag not availab		
(1) No		
(2) Eyeglasses/sunglasses		
(3) Contact lenses		
(4) Deployed, unknown if eyewear worn		
(7) Not deployed		
(8) Unknown if deployed		
(9) Unknown		
,-,		•

φ 1

HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact
 - (00) Occupant not seated or no seat
 - (01) Not adjustable

Upright prior to impact

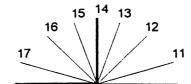
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

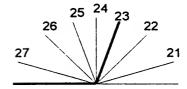
Slightly reclined prior to impact

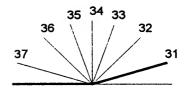
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify):
 - (7) Combination of above (specify):
 - (8) Other (specify):
 - (9) Unknown







CHILD SAF	ETY SEAT
55. Child Safety Seat Make/Model	58. Child Safety Seat Harness Usage <u>Φ</u> <u>Φ</u>
Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify):	59. Child Safety Seat Shield Usage <u>Ψ</u> Ψ
(998) Unknown make/model (999) Unknown if child safety seat used	60. Child Safety Seat Tether Usage Note: Options below applicable to Variables OA58-OA60. (20) Note: Options below applicable to Variables OA58-OA60.
 Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat - with shield (5) Booster seat - without shield (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used 	(00) No child safety seat Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used Designed With Harness/Shield/Tether (11) Harness/shield/tether not used
57. Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used	(12) Harness/shield/tether used (19) Unknown if harness/shield/tether used Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used

INJURY CONSEQUENCES	
1. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown	63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown
2. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify):	64. Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown
Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facility-unknown if treated (9) Unknown	65. Working Days Lost Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
EMERGENCY RESPO	ONSE INFORMATION
EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown ROAD VEHICLE ROAD VEHICLE AIR VEHICLE	EMS Type (01) Fire department (02) Rescue squad (03) Police department (04) Trauma unit (05) Disaster unit (06) Ambulance service unit (07) Hospital (08) Mortuaries/funeral homes (98) Other, specifiy: (99) Unknown
EMS Arrival Time (9998) EMS cancelled or did not arrive (9999) Unknown	EMS Care (on scene or during transport) (O1) No care administered (O2) First aid
EMS Departure Time To Treatment Facility (9997) EMS arrived, provided treatment, but did not transport (9998) EMS arrived, but was not used (9999) Unknown	(03) Resuscitation (04) CPR (05) Emergency cardiac care (06) Life support system monitoring (blood pressure, pulse rate, respiration, EKG) (07) Emergency burn care (08) Combination of above, specify: (98) Other, specify: (99) Unknown
EMS Arrival Time At Treatment Facility (9999) Unknown AIR VEHICLE	4 TO BE CODED BY THE ZONE CENTER

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INJURY CONSEQUENCES		TRAUMA DATA
66. Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	<u>φ</u> <u>φ</u> =	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death	φ ψ 	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given
69. 3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify): (97) Other result (includes fatal ruled	φΨ_	73. Arterial Blood Gases (ABG) – HCO ₃ <u>97</u> (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
disease) (specify):		BELT USE DETERMINATION
70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	91	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify):